

Portfolio – Interior Environmental Design

Student Name:

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Design Situation

The design for the airport lobby is for enhancing passenger comfort and efficiency. The purpose for designing an airport lobby is to create a welcoming, efficient, and enjoyable environment for travellers as they navigate through check in, security, and waiting areas. The target is business travellers, families, tourists, and individuals with special needs. The designed lobby needs to accommodate the terminal for both the arrival of the passenger and departure of passenger and integrate the security and immigration process. The design must be able to address challenges like optimize passenger flow to minimize congestion, enhance the security and providing a comfortable waiting area for the passengers. We need to include the luggage dropout and pick up area, check-in area, security screening zones, waiting lounges, retail space and immigration counter. This can be both for international and domestic airports but mostly applied to the international airport since expense of the equipment will be too much.

Motivations for Ideas

One of the motivations for this idea is to create a seamless flow for the passengers, to make a relaxing and comfortable place to wait and rest. It is so that the passengers can navigate through the terminal well and get to their terminals. The Sydney airport that I visited had a very compact and felt like a lot of things was going on. The place felt very stuffy, so I wanted design a lobby that feels very spacious.

Statement of Design Project / Who will use it?

The airport lobby will be used by travellers of all kinds- business workers, families, tourists, and individuals with accessibility needs. Their various tastes will be catered for in the design, resulting in a smooth and delightful experience from check-in to boarding.

The goal is to design an airport lobby into a modern and inviting place that not only facilitates smooth logistics but also a leave a good impression on the travellers. The project aims to provide a stress free and pleasant experience for all travellers passing through the airport.

Design Criteria – Factors of Design

Item	Priority				Comments
	1	2	3	4	
Function					The functionality of the airport lobby is very important as they impact the experience, efficiency, and safety and it will impact how the airport operate. With how the design is for the lobby, it will determine the flow of the passengers. If it is easy to find the exit and the terminals of the flights, the flow of the passenger will be smooth and will help with the efficiency of the airport. Also, the location of the check-ins, security screening, and boarding terminals can help with the management of the passenger flow. The airport lobby is a place that needs very high security as the security screening processes are happening and the lobby should facilitate, he effective deployment of security checkpoints and equipment to ensure the safety of all passengers and prevent potential threats. The lobby should also have efficient baggage handling system for checking in luggage and transferring it to the appropriate area for loading onto aircraft. The lobby in the design should be spacious and has clear instructions and guides for the passengers to navigate through the airport to search for places like the check-in counter, gates, baggage claim, and ground transportation options. The place should have the necessary facilities and services like the restroom, information desks, seating areas, nursing rooms, and currency exchange facilities. These enhance the passenger's comfort and convenience. There are more things that are crucial in the design of an airport like retail and dining areas, seating and waiting areas, information systems about the flights and emergency preparedness. The lobby should also be able to accommodate the people with disabilities such as elevators, and accessible restrooms. This is mostly for the international airports to use since there is more cost for the equipment. Therefore, the function of the airport will accommodate the international passengers more. The
Aesthetics					The aesthetic of the airport lobby is important; it contributes to the overall experience and the impression of the passengers and can also influence the traveller's perception about the airport. A good, designed lobby and visually pleasing lobby can create a welcoming and positive atmosphere. This kind of mood can reduce the stress and enhance the overall passenger experience. It also contributes the airport's brand identity and image, leaving a lasting impression to the travellers. While the aesthetic is essential but hey should be balanced with functionality, safety, and efficiency to ensure well-rounded successful airport lobby sign.
Space					The space of the airport lobby is very important as the mentioned before the passenger flow will be smooth with more space, and they can navigate through the space. If the space is small and is like a hallway, then it is very crowded and it is very hard to navigate and sometime the crowd can cause the passenger to be late for check-ins or the flight. The large space is needed to accommodate the various processes of the airport and do the security screening processes, and emergency preparedness. They also need space for the seating and waiting areas enhance the comfort of the travellers. And sufficient space for shops and dining areas, and other amenities. The space of the airport will reflect the airports unique and cultural elements, having a positive impression on passengers and promoting the airports brand image. The space should also accommodate people with disabilities.
Form					Compared to the other factors I think it is moderately important as it is important for the passenger experience and should help reduce stress but more then that I think the other factors are more important. The form of the airport lobby to its physical design, layout, and architectural elements. The thoughtful form design will incorporate energy-efficient features and environmentally friendly materials, aligning with sustainable materials. The form of the lobby leaves a unforgettable impression on the passengers, setting the tone for their ravel adventure. The form of the airport lobby serves as the foundational canvas on which a seamless, enjoyable, and effective avel experience is painted.
Materials and Technique					The materials and the techniques used in the design of the airport lobby is very important as they play a critical role and re highly influential in creating an effective and visually appealing. Selecting the appropriate materials can ensure that the lobby can withstand the weight of the thousands of travellers, weather, and reduces the maintenance cost and efforts. The flooring can accommodate the rolling luggage bags and the seating area for the passenger. The lobby should be able hold on from the tremors from the landing and departing flights. The materials need to be made sure they are safe so that it doesn't cause fire and are able to hold out for a long time if some kind of natural or accidents happen. The cost of the materials also needs to be considered when we are doing the design.
Order and Disorder					The order and disorder of the airport lobby are both significantly important since they impact the overall functionality, aesthetics, and passenger experience. Order f the airport lobby refers to the structured and organized layout of the airport lobby. The order of design should make possible for the passenger flow smooth through various processes. The lobby is orderly then the security procedure can be effective and crowd management. The signage is all in places they should be and necessary for the directional cues. Disorder in the airport design can be used for aesthetic and creativity, such as creating intentionally varied design elements can create a visual interest and uniqueness, making lobby more memorable. The disorder of the place can make the passenger explore more of the airport and engage with exhibits or interactive features. The disorder can also reflect to the playful, innovative, and dynamic brand identity, setting the airport apart from the others. A slightly disordered seating area create an atmosphere of comfort and cosiness, promoting relaxation and comfort or passengers.
Colour					The colour of the airport is very important to the overall design, it greatly influences the atmosphere, mood, and passenger experience. The type of colour in the airport lobby can evoke emotions of a person, for example, like the warm colour liker red and colour create energetic atmosphere, and while the other them colours like blue and green can promote soothing environment. The chosen colour will choose the will decide the mood and the reflect on the airport's image. Colour can be used on the signs to indicate the route people should take and navigate with it. Even the colour on the seating area and the other things can make the passenger feel comfortable. The colour can create different perception when interacting with lighting. The different colours can help us identify the room as a waiting room, retail sections, and security checkpoints.

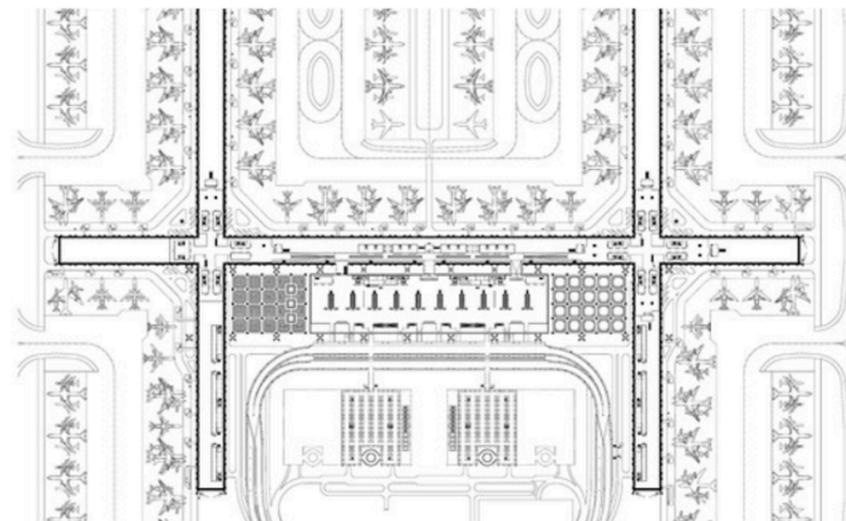
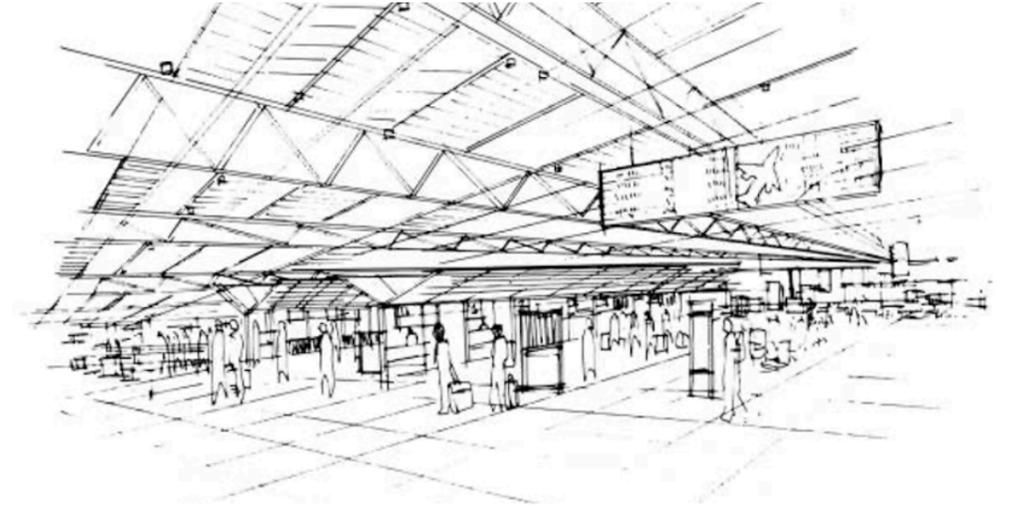
Ergonomic Considerations					Ergonomics, the study of how people interact with their surroundings. When designing we must look at what the passengers need and interact with most and how to make it comfortable and easy to do. Like the seating arrangement of the lobby the seat is well-spaced so that it can prevent crowding and allows the passenger to sit and stand without disrupting or disturbing each other. We need to create a pathway that is clear of things and doesn't obstruct the passenger passing through the lobby. The lobby should have escalators for the passengers to travel faster and make it to their destination on time. For example, the lobby of the Bangkok airport in Thailand has these escalators that are throughout the lobby to help with the travel of the passengers. The waiting area and the seating area should be comfortable like lumber support and cushioning to enhance the passenger's experience. The seat should also encourage proper postures which interacts with the health of the people. The lobby should have a play areas and family facilities that cater the needs of the child so that the parents can have a stress-free time to themselves. The seat needs to be adjustable for the passenger regardless of the age. For example, having adjustable seat height, back rest angle, and armrest height. Also adding the cushions that provides adequate support for both children and adults.
Light					The light of the lobby interacts with the lobby's overall design theme and intended atmosphere. The warm light can create a cosy atmosphere and the cool light give a modern and sleek feel. The passengers should be comfortable seeing the surrounding not the mix of less lighting this side and dark on the other side. This can cause discomfort for the passenger. The lighting can be used to highlight the signage so that the passenger can find it and navigate themselves. The adequate lighting can help the visibility of the security and the surveillance of the airport. Some airports have art displaced to highlight the place of to sell it. So, the light can be used to showcase this art, and sculpture. The lighting used can also affect the cost of the design project so using lighting like the LED bulb can reduce energy consumption. The design in my project is like a glass kind of house where you can see the outside with the big glass type window that show the outside and there is lighter coming inside but the whole place wouldn't have the glass only the sides. This way the visibility for the passenger is more.
Maintenance					The maintenance of the airport lobby is very important since it effects the functionality, safety, aesthetic, and the overall sustainability of the place. It is important due to longevity because we need the structure to be durable for the airport to function properly. The maintenance can help ensure that equipment, facilities, and systems are in proper conditions, and they don't need to be replaced that often. This also helps keep the passengers safe as the signage, lighting, flooring, and safety ensures at the lobby mains in a safe environment or passenger and staff. That's why this can also save money from being spend. Well maintained system can ensure operate efficiently, reducing energy consumption and the lobby's environmental footprint. When building the lobby, we need to choose materials that are resistant to wear and tear and avoid materials that are prone to fading, tearing, or staining. Also, the seating areas are to be made so that they can remove the cover and can be replaced. We need the equipment and the materials to be regularly inspected to maintain the conditions of the airport lobby.
Environmental Impact					The environmental impact is very important in designing the lobby of the airport since it addresses the sustainable practices that minimize the negative effects on ecosystems, natural resources, and the planet. We need to design a lobby which sustainable and able to reuse the waste produced.
Storage					The storage is meant to support the systematic and secure storage of various objects, possession, or equipment. The storage is an important consideration that involve creating designated areas or solutions where passengers and staffs can store their luggage, personal items, and other belongings. This way we can reduce clutters and ensure the security of the passengers.
Structure					In terms of the structure of the airport lobby, it refers to the underlying framework or support system that provides stability, form, and functionality to build an environment. The structural design is crucial for creating a safe, durable, and aesthetically pleasing space. The structure ensures that it can hold the weight of the various loads, forces, and environmental conditions. The structure also shapes the lobby's visual appeal and accommodates the infrastructure like electrical, and plumbing. I think stainless steel is best for the structure as it can hold the glass, resistant to rust and durable.
Social / Psychological					The social or the psychological factor of design refers to the considerations related to how people interact with and perceive the design of the airport lobby. This help us to create a space that are engaging, comfortable and aligned with the passengers needs and wants. We need to design with this factor to a space that meets the emotional, social, and cognitive needs of the passengers. This also helps in designing the signage, pathways, and landmarks for navigating through the airport. Also choosing the colour with the people's psychology and creating space for people to interact and be socials. The colour of the airport will also cause a change in the behaviour of the airport. The most suitable colour for the design is white and off-white as it can create an open and airy feeling d they also reflect light which would make the space brighter and more inviting.

Gantt Chart

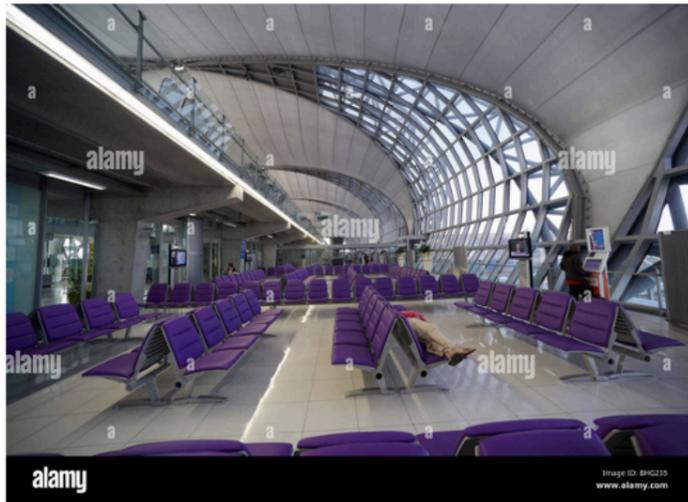
Action	Term 1								Term 2							
	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11	Wk 12	Wk 13	Wk 14	Wk 15	Wk 16	Wk 17
Project Proposal and Project Management																
Design Brief (Written communication)																
Design Criteria - Factors of Design																
Gantt Chart (Timeline Chart)																
Mood Board																
Thumbnail / Concept sketches																
Computer Drawings																
Evaluation																

Inspirational

Insert images from existing design that inspire your project.

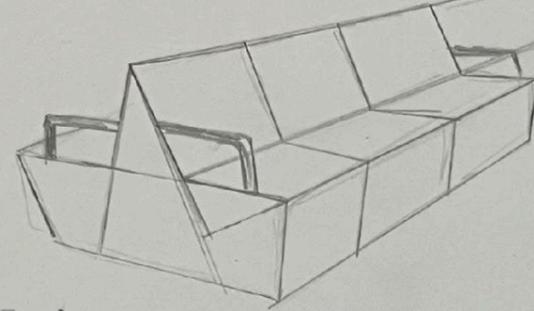
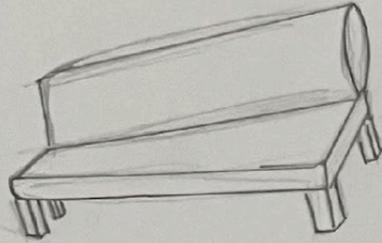


Mood Board

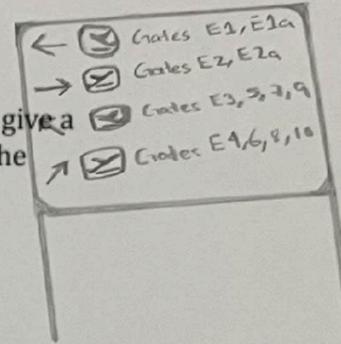


Concept Sketches

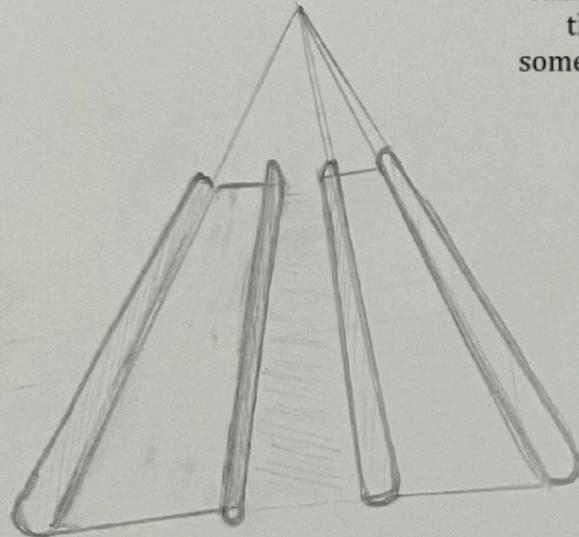
Chair or sitting area.



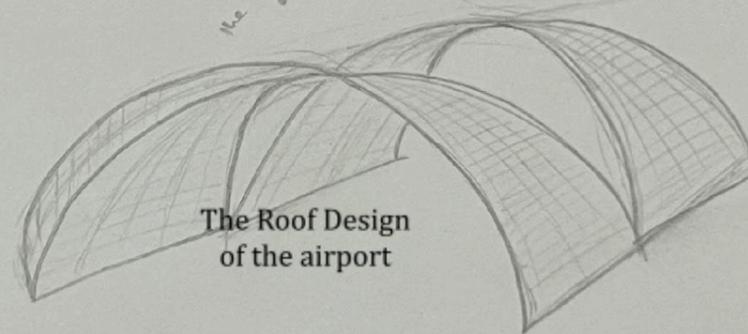
Signs (Signs that give a direction to the travellers)



Ramp Escalators or the sidewalks sometimes called the travelators.

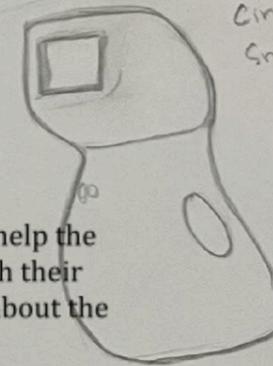


The roof of the airport

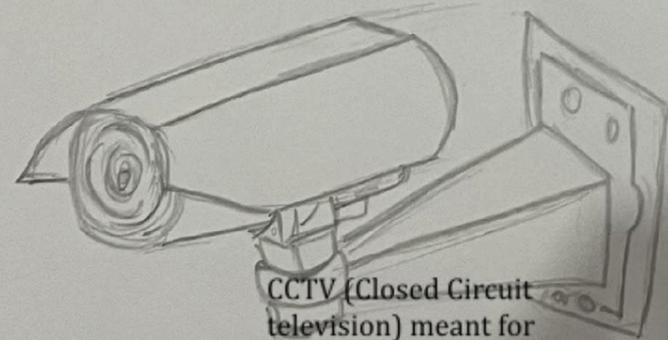


The Roof Design of the airport

Robot (They help the travellers with their information about the airport.)



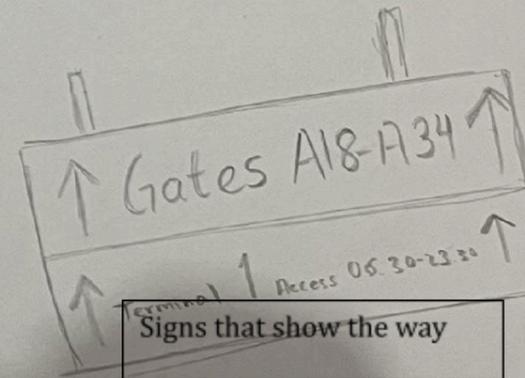
Cinnamon Smart Robot



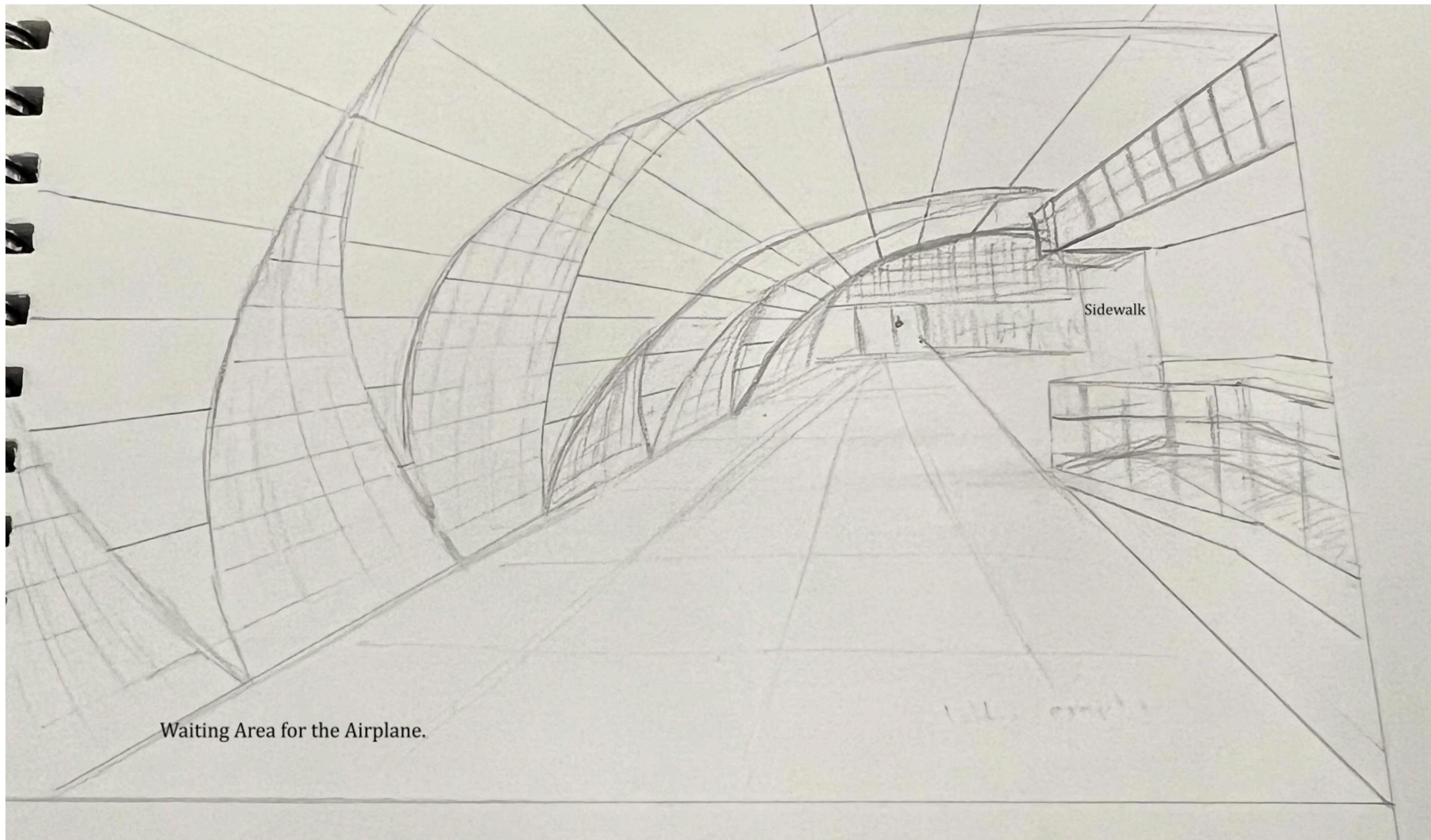
CCTV (Closed Circuit television) meant for surveillance



Sitting area (where people can eat their food)



Signs that show the way



Waiting Area for the Airplane.



The Airport Lobby (2nd level) airport terminal leading to the waiting area for the airplane.

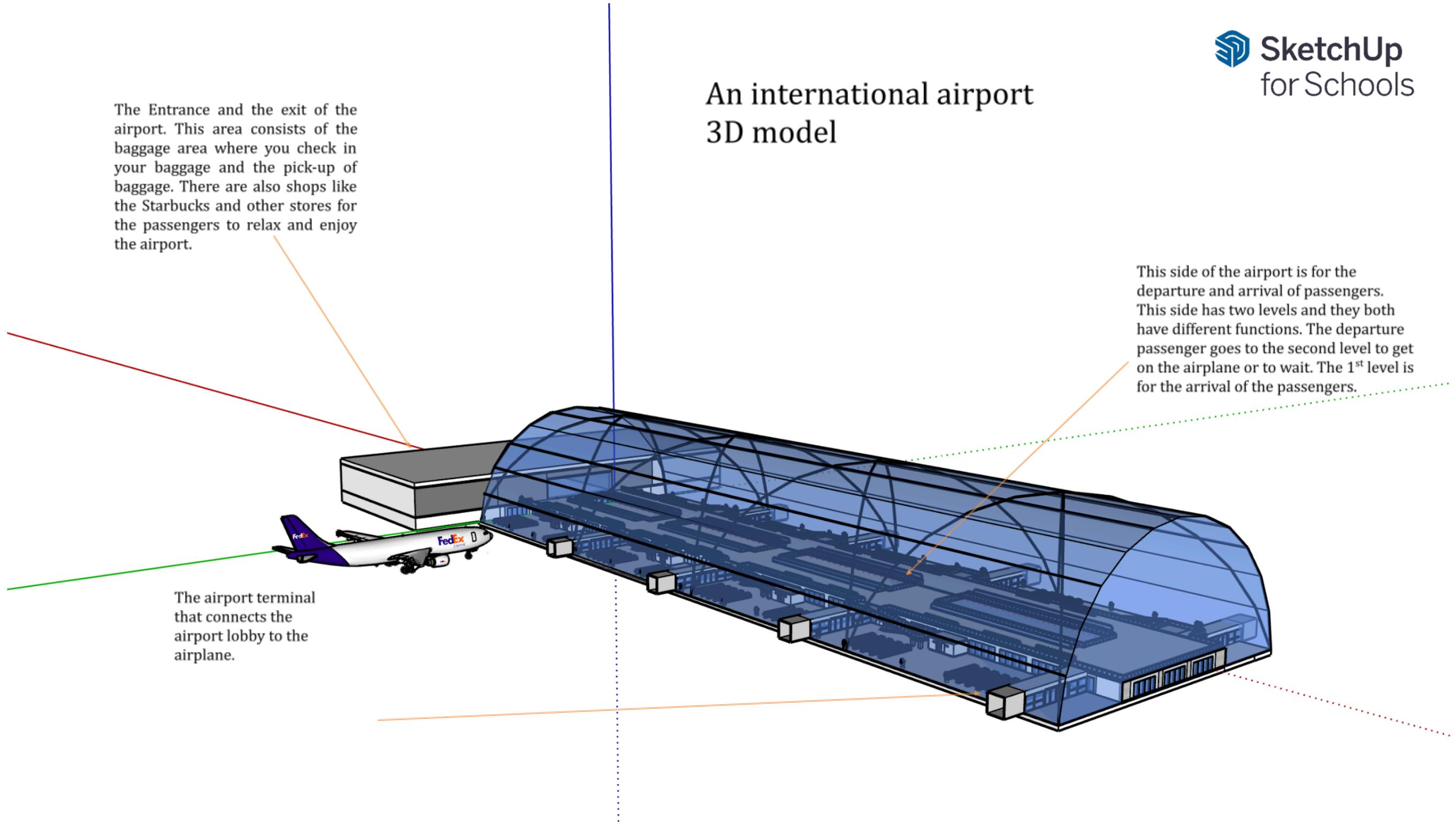
Final Product Images

An international airport 3D model

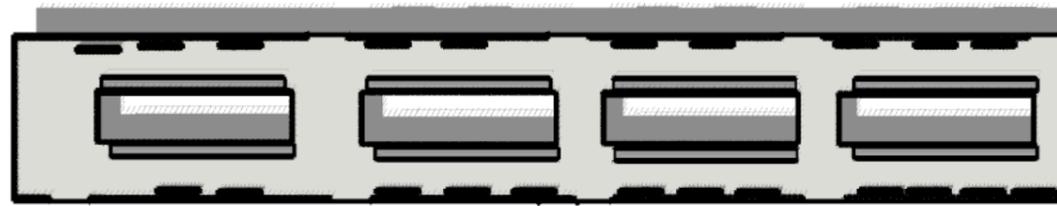
The Entrance and the exit of the airport. This area consists of the baggage area where you check in your baggage and the pick-up of baggage. There are also shops like the Starbucks and other stores for the passengers to relax and enjoy the airport.

This side of the airport is for the departure and arrival of passengers. This side has two levels and they both have different functions. The departure passenger goes to the second level to get on the airplane or to wait. The 1st level is for the arrival of the passengers.

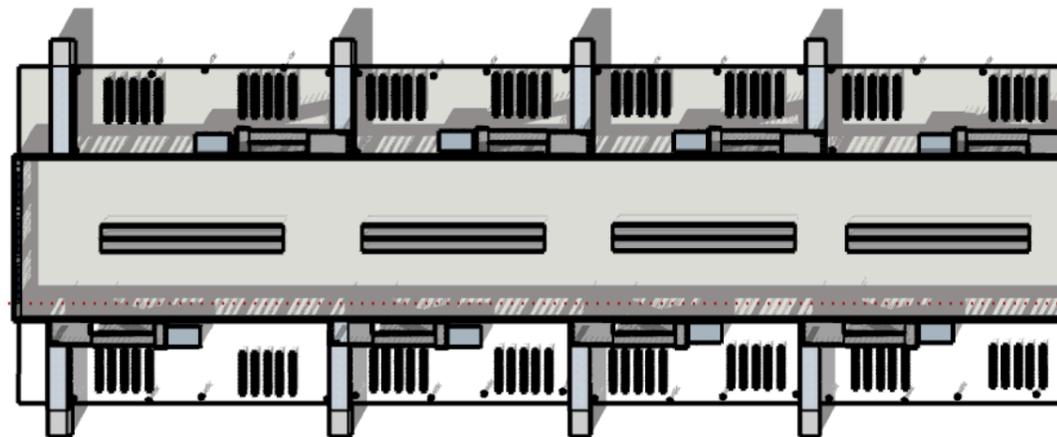
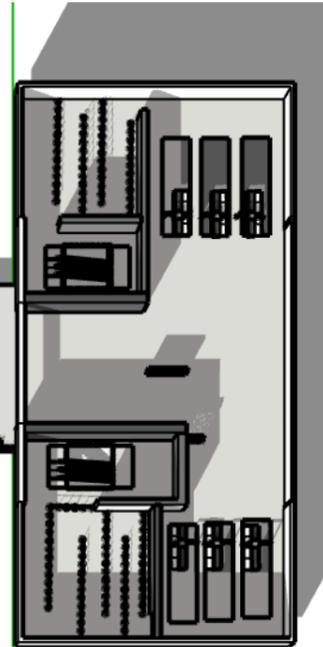
The airport terminal that connects the airport lobby to the airplane.



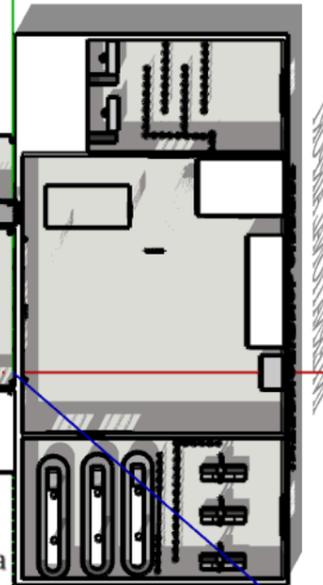
The airport is divided into a lot of areas but mostly into two parts as you see below. They all have different functions and have many things that are very important for example the components that are important to the airport.



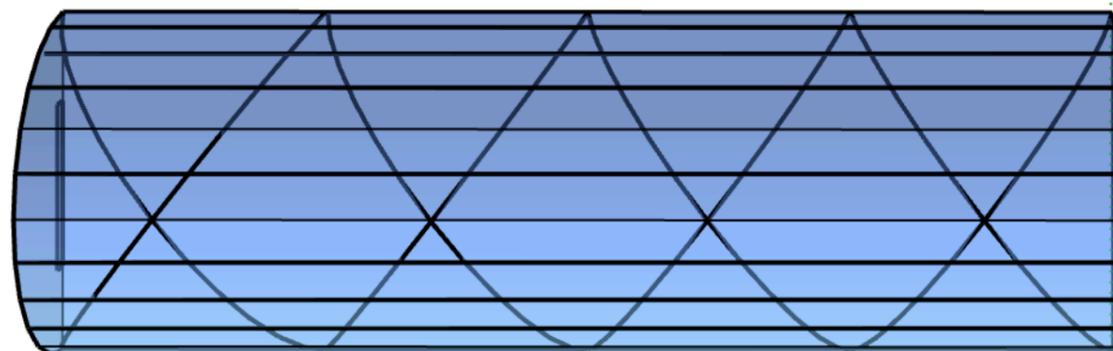
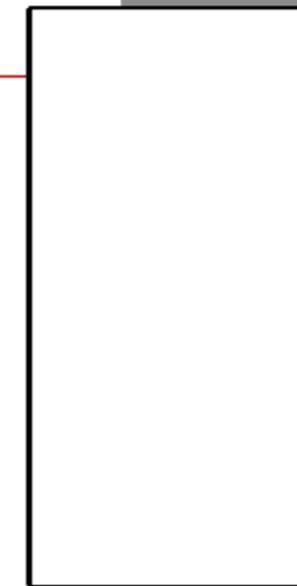
This is the second level of the airport where the people depart from here and wait for their flights to come. There are also baggage checking on the passengers to see whether there is any illegal things or things that can be harmful for the country's environment or the people on the airport.



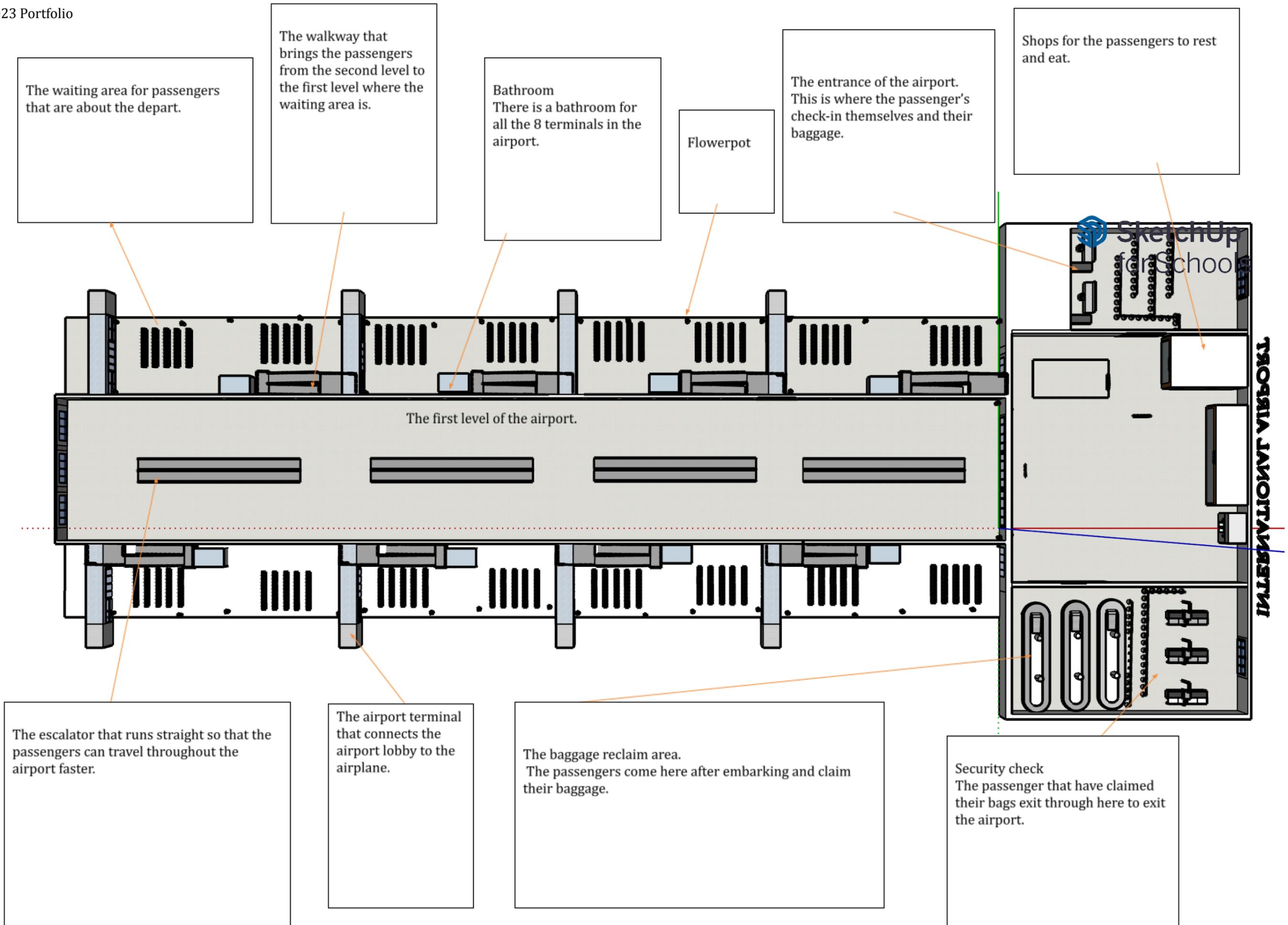
This is the first level where the passengers disembark from their flight and come through here to go to the end of the right side to claim their baggage and go through a security process and leave the airport to their own destination. There also shops here for the passengers. The entrance for the airport is also there for the people to check in themselves and their baggage and move to the second level for their flight.

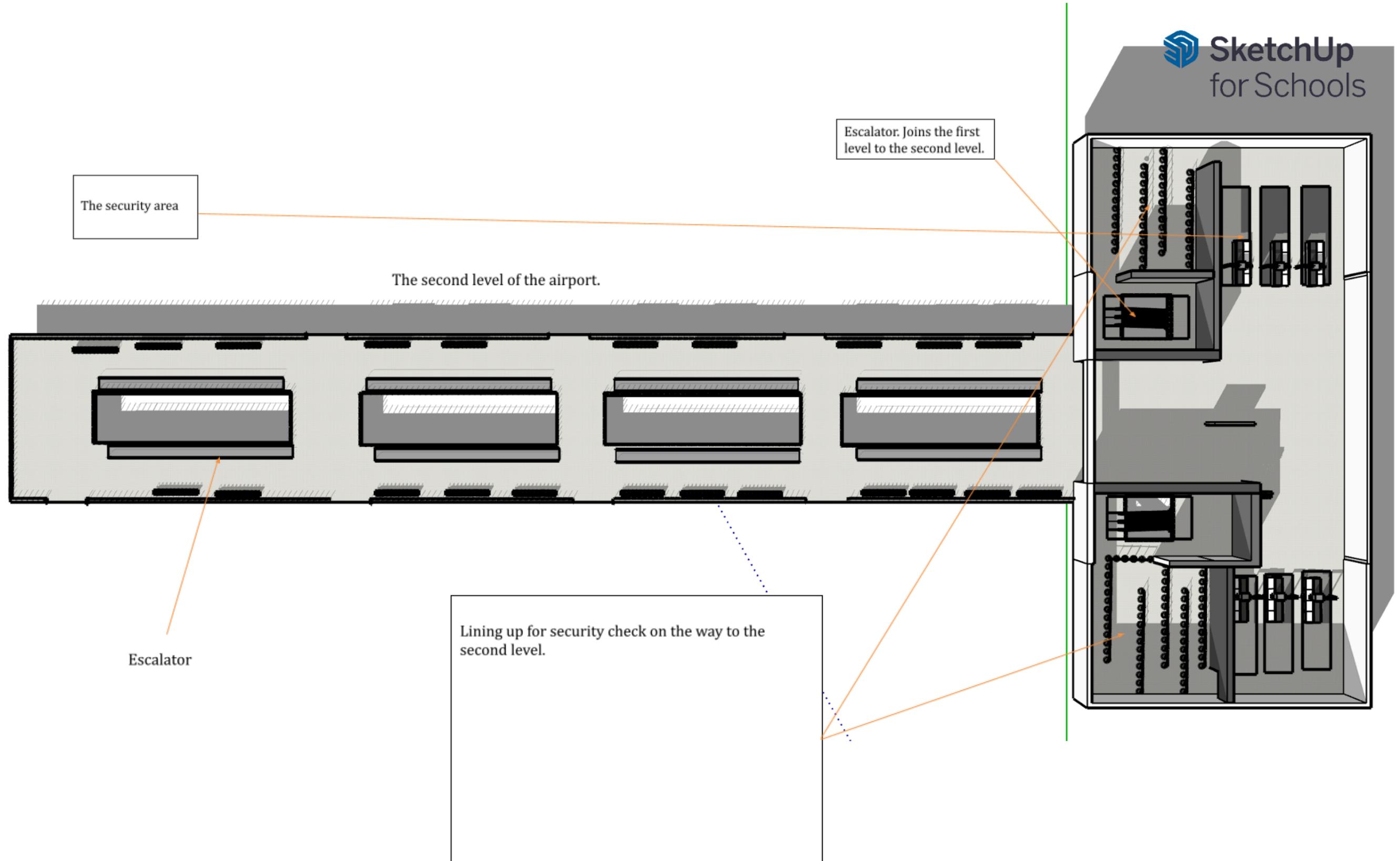


This on here is the roof for the second floor.



The blue shaped shape here is the roof of the airport which is mostly made of glass so that there is more light inside the airport.





Evaluation

Successful techniques

In my efforts to construct the airport lobby, I achieved success in several areas. First off, navigating the model was much simpler thanks to the terminals' arrangement into T1, T2, T3, and so on. Better organisation and component distribution to the appropriate areas were made possible by this segmentation.

Using components to create an integrated layout by copying, pasting, and multiplying was another effective technique. For example, this technique worked especially well when creating the automated doors, security barriers, windows, glasses, and perimeter fence. Nevertheless, some of these components began to come loose because of problems with the floor alignment, making it difficult to preserve the integrity of the design.

It was successful to construct the walkway that goes to the first floor, which houses the waiting area. The drawing was easier to navigate because of the way the elements were arranged in this area. Furthermore, the way in which escalators were designed and installed filled in spaces well and reduced the amount of detail work that was required in hallways.

Another effective strategy that was used throughout the airport was the use of mirrors and lighting. This method made sure there was enough light in the room. The roof's construction also proceeded more smoothly than anticipated. To provide a sturdy and secure structure for the passengers, I used lines to indicate where the pillars should be placed. To help passengers navigate the airport, I added signage that showed where relevant terminals and restrooms are located, along with signs that show which flights are leaving and arriving.

Unsuccessful techniques

During construction, several techniques ran into problems. Due to insufficient thickness and misalignment between the upper and lower levels, the floor construction proved to be a major challenge. As a result, the design was disturbed, with components and walls showing through and obstructing the top floor's flooring. Proposals to thicken the floor to fix this were met with significant obstacles, which delayed the project.

Moreover, the airport appeared claustrophobic due to design flaws in the walls. The success of the overall design was also hampered by features like the enormous escalators. The quality of the interior design was impacted by the complexity of navigation and editing within the project due to improper component tagging and organisation, especially in areas like stores and the entrance. Furthermore, even though I imported a chair design, I had to create chairs, tables, and scanners from scratch because the design was too big and inappropriate for my SketchUp. In conclusion, the project saw a combination of effective and ineffective methods that had an impact on different facets of the building and design of the airport lobby.

Evaluation of design criteria (factors of design)

Function: By enabling the efficient flow of passengers through terminals, the design satisfies the functional requirement of an airport. Through a variety of checkpoints, security measures are sufficiently addressed, preventing potential threats like fruit-related ecological damage or drug smuggling. Passengers are efficiently separated by the various terminals, enabling efficient processing. Passengers are directed to the proper areas upon departure and arrival, guaranteeing a seamless transition between levels for varying needs.

Aesthetics: Although the airport's overall design is pleasing, some parts, most notably the airport lobby entrance, lack a memorable experience. On the other hand, the terminal areas and rest areas make a good impression because they are spacious and well-lit, creating a friendly atmosphere. The lobby's design decision to be primarily white works well with natural light, making it easier to navigate and even supporting security measures. Aside from improving the atmosphere, considering light and space ensures that passengers' faces can be clearly seen during security checks.

Ergonomics: The design of the airport places a strong emphasis on connections between levels and terminals, which improves passenger ergonomics. Passenger movement is made easier by practical features like escalators, and the division of spaces for various uses is executed well. Although there have been some challenges, such as problems arising from design flaws, overall, the design promotes passenger comfort and ease of mobility throughout the airport.

Interior design principles: After spending so much time in cramped flight areas, the project emphasises the value of lighting in a large space to help passengers relax. The use of light helps to improve visibility, which is crucial for security checks, as well as to create a welcoming atmosphere.

In conclusion, even though the design has effectively addressed a number of the design criteria—such as allowing for easier passenger movement and security and creating a welcoming atmosphere with ample lighting and space—there are still some areas that require improvement, like improving the entrance area's aesthetics and improving in on some design elements for better functionality. In general, the project exhibits a blend of effective and ineffective methodologies while upholding a commendable degree of conformity to the design specifications.

Reflection

My main takeaway from the process of finishing the airport lobby project is the necessity of improved time management techniques and a sharper focus on detail. My time management was one important area that needed work. Considering the intricacy of the project, involving multiple design components and structural factors, I could have better managed my time. This would have made it possible for a workflow to be better organised and for each project phase to have a better time allotment.

Attention to detail was one important area where time management went wrong. There have been multiple cases where small but significant details—like the layout of the flooring or the placement of the parts—were neglected, leading to problems and setbacks. The overall functionality and quality of the finished product were greatly impacted by these problems.

Additionally, SketchUp's component management could have been more planned and strategic. Due to the software's improper organisation, the model's extensive work was causing lags and even crashes as the system struggled to handle it. This not only impeded development but also caused annoyance and postponed the project's completion.

Moreover, there was ineffective establishment of the airport design's foundation or base. This fundamental problem, along with issues with the flooring and component alignment, made it difficult to create an airport lobby that is both aesthetically pleasing and sound functionally.

In summary, better time management techniques, attention to minute details, and better organisation within the design software would have all made a big difference in how smoothly and successfully the airport project was completed.

Comment on the Final Quality of the project

The project's final quality is a bit of a mixed bag. I'm proud of certain things, for sure, but there are other things that didn't live up to my standards. For example, I think the project has some merit even though it has some serious errors that I was unable to fix. I'm sorry I couldn't correct some of the mistakes and add extra features like night lighting and necessary fixtures like bins. By completing the gaps in the design, these additions could have improved the space's overall functionality and aesthetics.

I am satisfied with certain structural aspects of the airport model. Positive features include the layout and arrangement of terminals in the airport lobby as well as the use of glass roofs. These highlights, however, are somewhat overshadowed by the ongoing errors, particularly in crucial areas like the flooring and component alignment. The project's overall aesthetic and functional appeal has been harmed by these mistakes.

Taking steps to address the mistakes made during the design process would have improved the project's quality significantly. These upgrades might have raised the bar for the entire model, guaranteeing a more well-made and useful product. A more comprehensive and user-friendly airport design would have resulted from the addition of minor but important details like lighting for various times of the day and bins.

In conclusion, the structural elements and design distribution of the airport have some positive aspects, but the overall quality is compromised by mistakes that have not been fixed and the omission of some crucial parts, which has an impact on the final model's appearance and functionality.

Project management skills evaluation

My project management abilities were obviously deficient in several areas during this project. One notable weakness was time management. I found it difficult to divide up my time between the project's phases. This unstructured approach to time management resulted in inefficiencies, which occasionally compromised the quality of the work and delayed task completion.

Moreover, there was a lack of organisation in the design programme, SketchUp. The project's advancement was hampered by lags and crashes caused by the software's poor component management and the airport model's structural organisation. These difficulties were signs that the project's resource management was inadequate.

Areas for improvement

After giving this project some thought, a few tweaks could have been made to improve the result. First and foremost, time management required a more structured and disciplined approach. Task management would have been more effective if there had been a defined timeline for every stage of the project and it had been followed. Additionally, it would have made it possible to allocate time to the project's various sections more evenly, avoiding hurried work and mistakes in important design details.

It was also crucial that I sharpen my abilities in software management, especially with applications like SketchUp. A smoother workflow and a lower likelihood of losing progress owing to technical problems could have been ensured by learning how to arrange components more efficiently and making the best use of software features.

It would have also been advantageous to pay more attention to detail and carry out routine quality checks during the design process. This could have assisted in identifying errors early on, enabling prompt correction and a better calibre of output in the end.

Overall, a more successful and polished project outcome would have resulted from increasing software proficiency, honing time management skills, and paying closer attention to detail.

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INTERIOR ENVIRONMENTAL DESIGN

By Ngedup Jigme Lhazeen

Assessment Task 1 year 11T Design and Emerging Technology
Semester 2, 2023

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Design Brief - Identification and Exploration of Need

Design Situation

The design for the airport lobby is for enhancing passenger comfort and efficiency. The purpose for designing an airport lobby is to create a welcoming, efficient, and enjoyable environment for travellers as they navigate through check in, security, and waiting areas. The target is business travellers, families, tourists, and individuals with special needs. The designed lobby needs to accommodate the terminal for both the arrival of the passenger and departure of passenger and integrate the security and immigration process. The design must be able to address challenges like optimize passenger flow to minimize congestion, enhance the security and providing a comfortable waiting area for the passengers. We need to include the luggage dropout and pick up area, check-in area, security screening zones, waiting lounges, retail space and immigration counter. This can be both for international and domestic airports but mostly applied to the international airport since expense of the equipment will be too much.

Motivations for Ideas

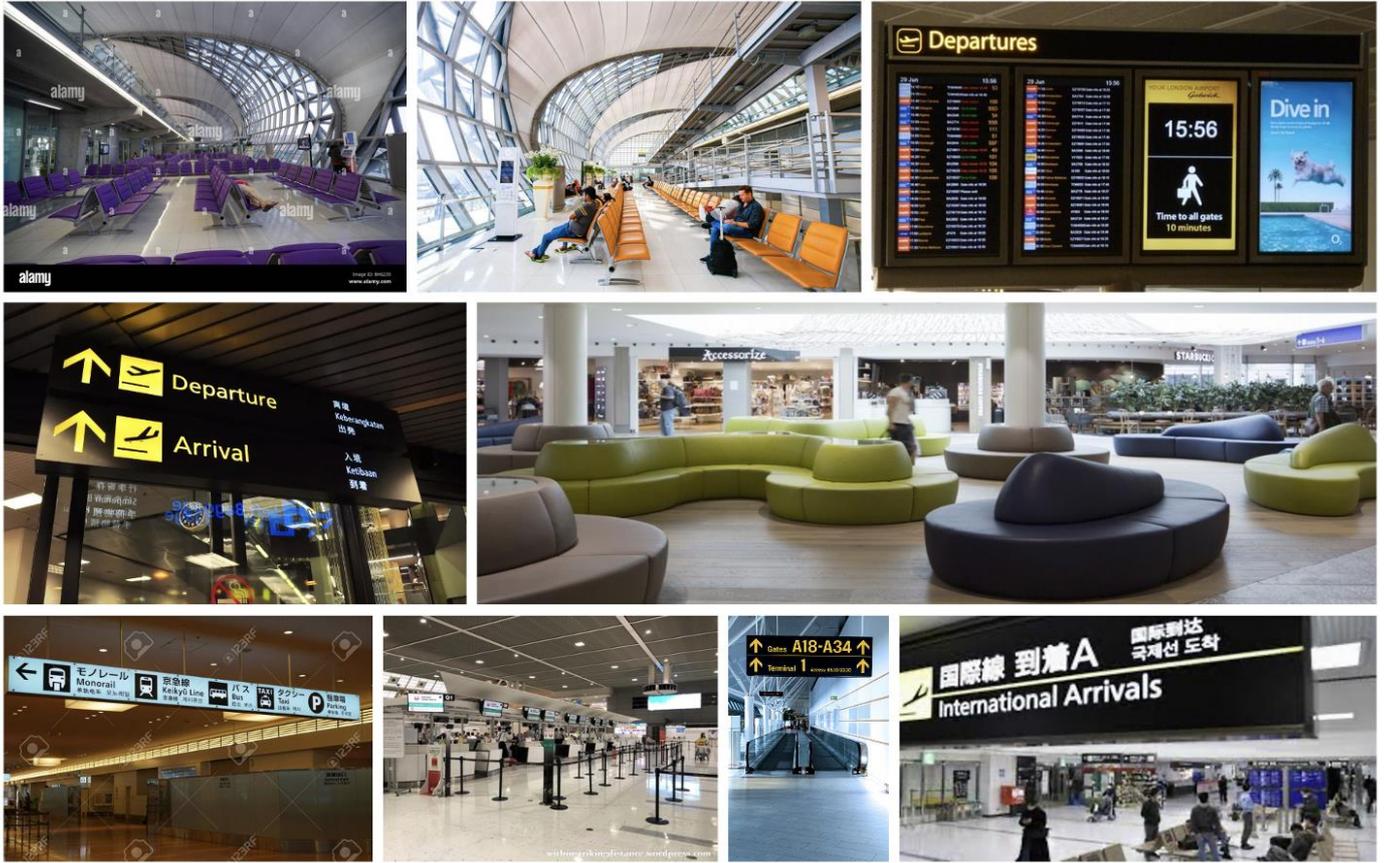
One of the motivations for this idea is to create a seamless flow for the passengers, to make a relaxing and comfortable place to wait and rest. It is so that the passengers can navigate through the terminal well and get to their terminals. The Sydney airport that I visited had a very compact and felt like a lot of things was going on. The place felt very stuffy, so I wanted design a lobby that feels very spacious.

Statement of Design Project / Who will use it?

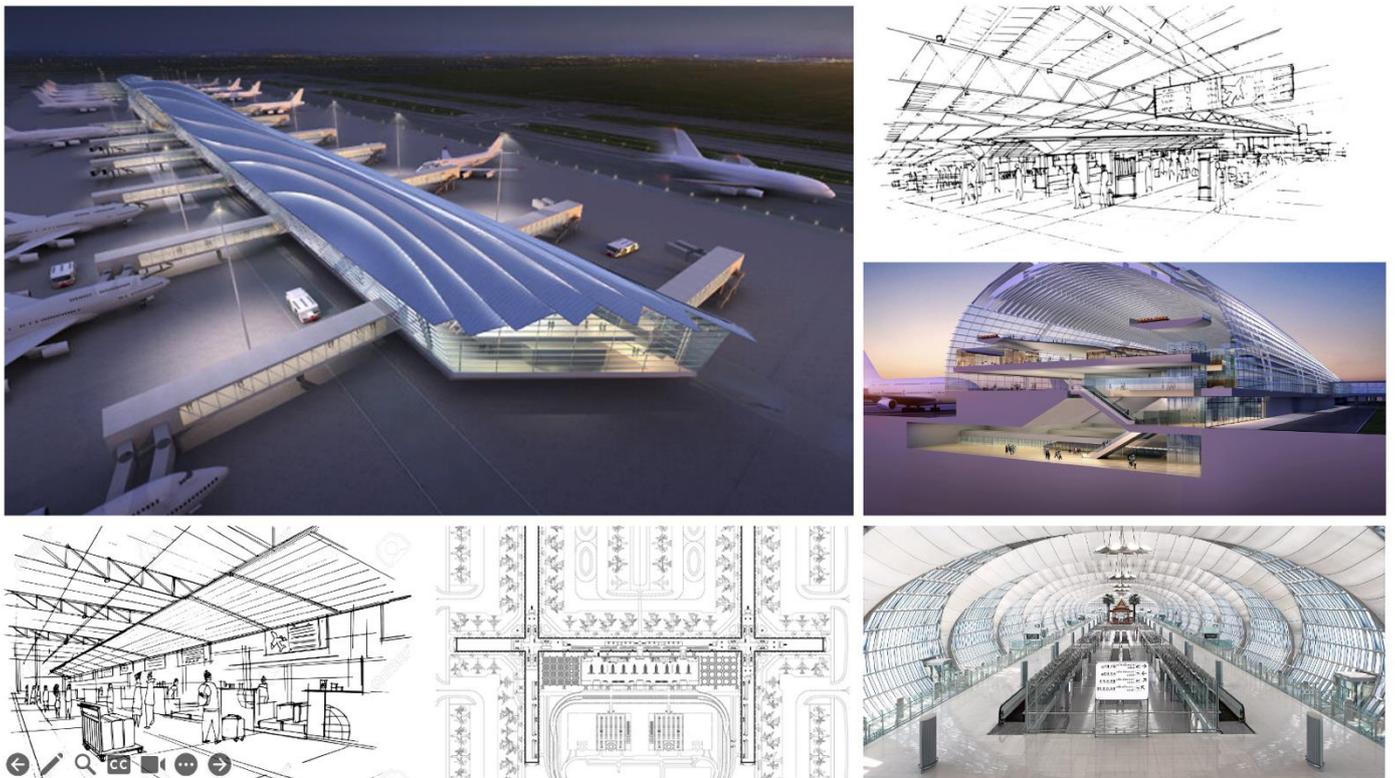
The airport lobby will be used by travellers of all kinds- business workers, families, tourists, and individuals with accessibility needs. Their various tastes will be catered for in the design, resulting in a smooth and delightful experience from check-in to boarding.

The goal is to design an airport lobby into a modern and inviting place that not only facilitates smooth logistics but also a leave a good impression on the travellers. The project aims to provide a stress free and pleasant experience for all travellers passing through the airport.

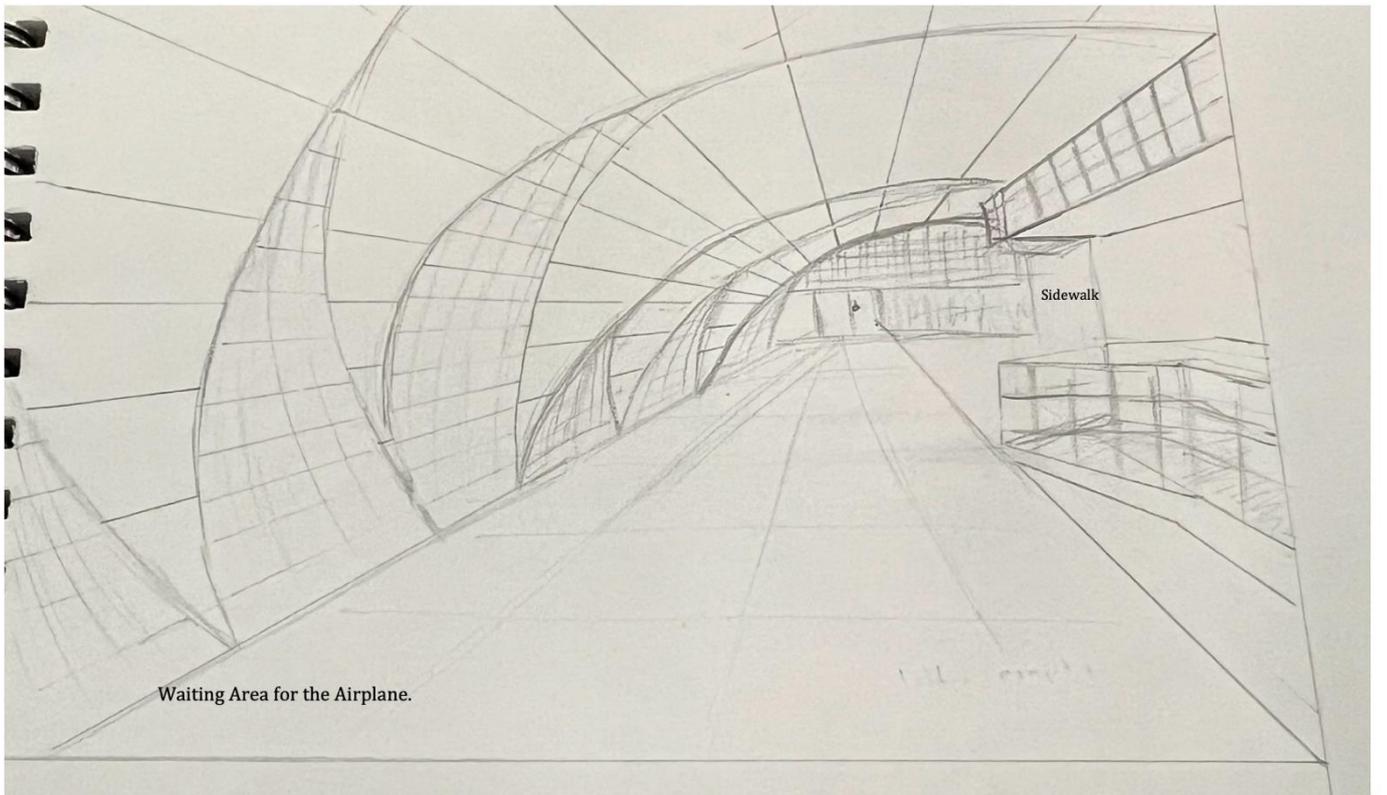
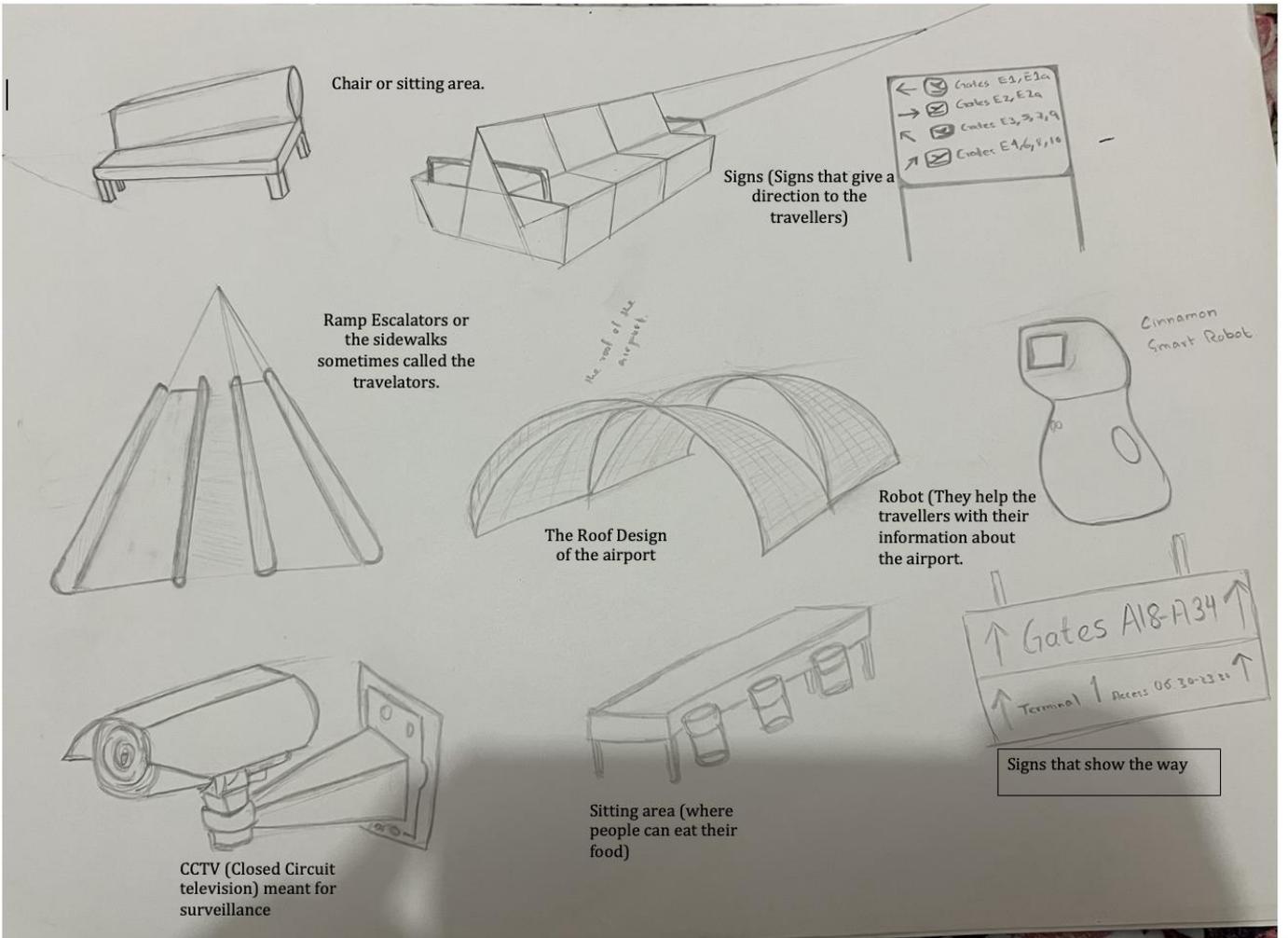
Inspiration



Mood board



Concept Sketches





The Airport Lobby (2nd level) airport terminal leading to the waiting area for the airplane.

Final Product Images

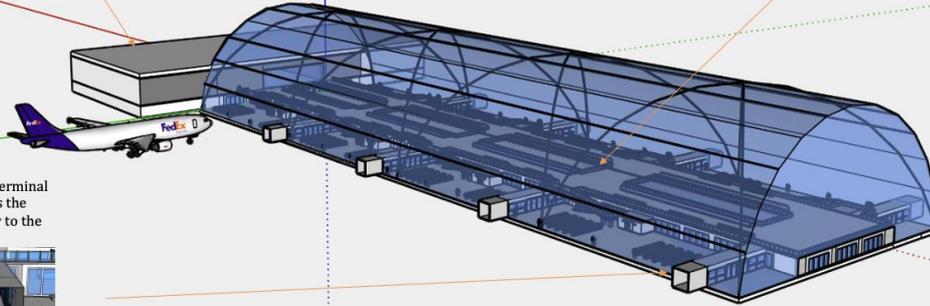
Include at least four images with annotations.

An international airport 3D model

The Entrance and the exit of the airport. This area consists of the baggage area where you check in your baggage and the pick-up of baggage. There are also shops like the Starbucks and other stores for the passengers to relax and enjoy the airport.

This side of the airport is for the departure and arrival of passengers. This side has two levels and they both have different functions. The departure passenger goes to the second level to get on the airplane or to wait. The 1st level is for the arrival of the passengers.

The airport terminal that connects the airport lobby to the airplane.



The waiting area for passengers that are about to depart.



The walkway that brings the passengers from the second level to the first level where the waiting area is.



Bathroom
There is a bathroom for all the 8 terminals in the airport.



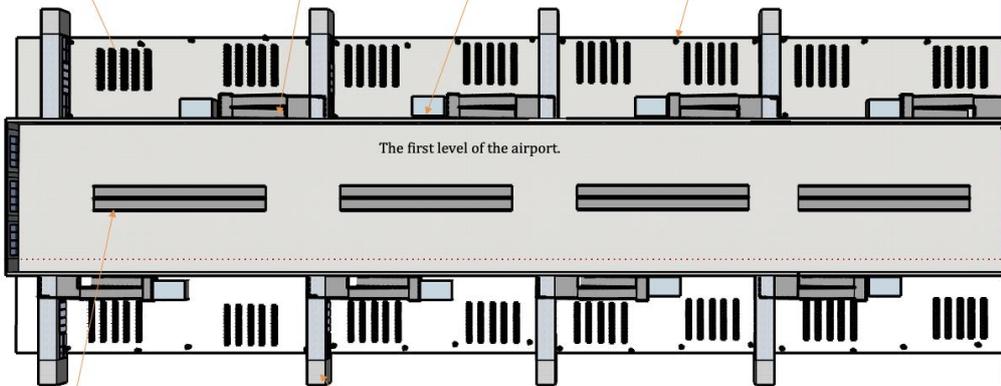
Flowerpot



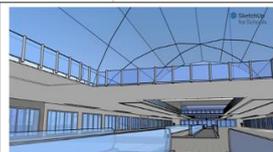
The entrance of the airport. This is where the passenger's check-in themselves and their baggage.



Shops for the passengers to rest and eat.



The first level of the airport.



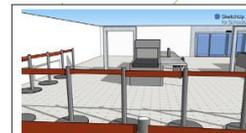
The escalator that runs straight so that the passengers can travel throughout the airport faster.



The airport terminal that connects the airport lobby to the airplane.

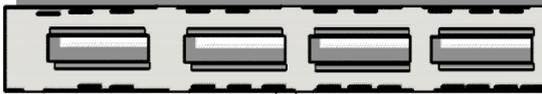


The baggage reclaim area. The passengers come here after embarking and claim their baggage.

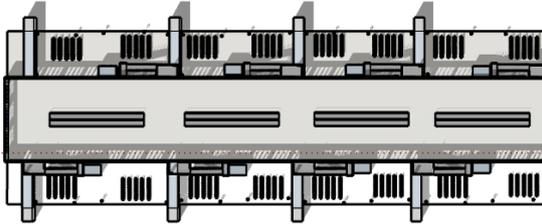


Security check
The passenger that have claimed their bags exit through here to exit

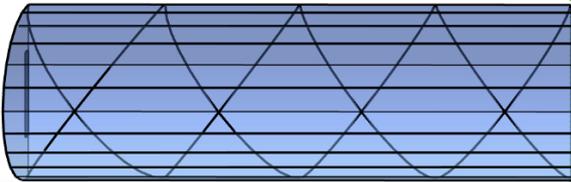
The airport is divided into a lot of areas but mostly into two parts as you see below. They all have different functions and have many things that are very important for example the components that are important to the airport.



This is the second level of the airport where the people depart from here and wait for their flights to come. There are also baggage checking on the passengers to see whether there is any illegal things or things that can be harmful for the country's environment or the people on the airport.

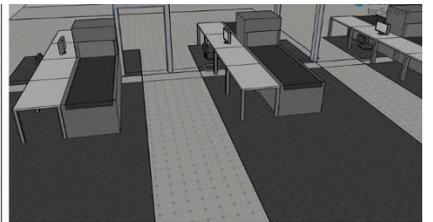


This is the first level where the passengers disembark from their flight and come through here to go to the end of the right side to claim their baggage and go through a security process and leave the airport to their own destination. There also shops here for the passengers. The entrance for the airport is also there for the people to check in themselves and their baggage and move to the second level for their flight.

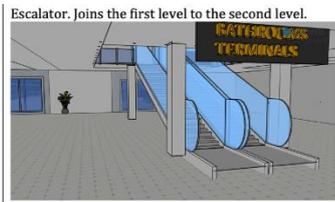


The blue shaped shape here is the roof of the airport which is mostly made of glass so that there is more light inside the airport.

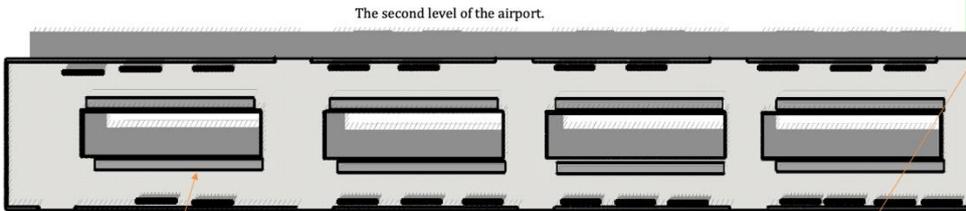
This on here is the roof for the second floor.



The security area

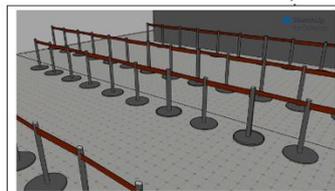


Escalator. Joins the first level to the second level.



The second level of the airport.

Escalator



Lining up for security check on the way to the second level.

Evaluation

Successful techniques

In my efforts to construct the airport lobby, I achieved success in several areas. First off, navigating the model was much simpler thanks to the terminals' arrangement into T1, T2, T3, and so on. Better organisation and component distribution to the appropriate areas were made possible by this segmentation.

Using components to create an integrated layout by copying, pasting, and multiplying was another effective technique. For example, this technique worked especially well when creating the automated doors, security barriers, windows, glasses, and perimeter fence. Nevertheless, some of these components began to come loose because of problems with the floor alignment, making it difficult to preserve the integrity of the design.

It was successful to construct the walkway that goes to the first floor, which houses the waiting area. The drawing was easier to navigate because of the way the elements were arranged in this area. Furthermore, the way in which escalators were designed and installed filled in spaces well and reduced the amount of detail work that was required in hallways.

Another effective strategy that was used throughout the airport was the use of mirrors and lighting. This method made sure there was enough light in the room. The roof's construction also proceeded more smoothly than anticipated. To provide a sturdy and secure structure for the passengers, I used lines to indicate where the pillars should be placed. To help passengers navigate the airport, I added signage that showed where relevant terminals and restrooms are located, along with signs that show which flights are leaving and arriving.

Unsuccessful techniques

During construction, several techniques ran into problems. Due to insufficient thickness and misalignment between the upper and lower levels, the floor construction proved to be a major challenge. As a result, the design was disturbed, with components and walls showing through and obstructing the top floor's flooring. Proposals to thicken the floor to fix this were met with significant obstacles, which delayed the project.

Moreover, the airport appeared claustrophobic due to design flaws in the walls. The success of the overall design was also hampered by features like the enormous escalators. The quality of the interior design was impacted by the complexity of navigation and editing within the project due to improper component tagging and organisation, especially in areas like stores and the entrance. Furthermore, even though I imported a chair design, I had to create chairs, tables, and scanners from scratch because the design was too big and inappropriate for my SketchUp. In conclusion, the project saw a combination of effective and ineffective methods that had an impact on different facets of the building and design of the airport lobby.

Evaluation of design criteria (factors of design)

Function: By enabling the efficient flow of passengers through terminals, the design satisfies the functional requirement of an airport. Through a variety of checkpoints, security measures are

sufficiently addressed, preventing potential threats like fruit-related ecological damage or drug smuggling. Passengers are efficiently separated by the various terminals, enabling efficient processing. Passengers are directed to the proper areas upon departure and arrival, guaranteeing a seamless transition between levels for varying needs.

Aesthetics: Although the airport's overall design is pleasing, some parts, most notably the airport lobby entrance, lack a memorable experience. On the other hand, the terminal areas and rest areas make a good impression because they are spacious and well-lit, creating a friendly atmosphere. The lobby's design decision to be primarily white works well with natural light, making it easier to navigate and even supporting security measures. Aside from improving the atmosphere, considering light and space ensures that passengers' faces can be clearly seen during security checks.

Ergonomics: The design of the airport places a strong emphasis on connections between levels and terminals, which improves passenger ergonomics. Passenger movement is made easier by practical features like escalators, and the division of spaces for various uses is executed well. Although there have been some challenges, such as problems arising from design flaws, overall, the design promotes passenger comfort and ease of mobility throughout the airport.

Interior design principles: After spending so much time in cramped flight areas, the project emphasises the value of lighting in a large space to help passengers relax. The use of light helps to improve visibility, which is crucial for security checks, as well as to create a welcoming atmosphere.

In conclusion, even though the design has effectively addressed a number of the design criteria—such as allowing for easier passenger movement and security and creating a welcoming atmosphere with ample lighting and space—there are still some areas that require improvement, like improving the entrance area's aesthetics and improving in on some design elements for better functionality. In general, the project exhibits a blend of effective and ineffective methodologies while upholding a commendable degree of conformity to the design specifications.

Reflection

My main takeaway from the process of finishing the airport lobby project is the necessity of improved time management techniques and a sharper focus on detail. My time management was one important area that needed work. Considering the intricacy of the project, involving multiple design components and structural factors, I could have better managed my time. This would have made it possible for a workflow to be better organised and for each project phase to have a better time allotment.

Attention to detail was one important area where time management went wrong. There have been multiple cases where small but significant details—like the layout of the flooring or the placement of the parts—were neglected, leading to problems and setbacks. The overall functionality and quality of the finished product were greatly impacted by these problems.

Additionally, SketchUp's component management could have been more planned and strategic. Due to the software's improper organisation, the model's extensive work was causing lags and even crashes as the system struggled to handle it. This not only impeded development but also caused annoyance and postponed the project's completion.

Moreover, there was ineffective establishment of the airport design's foundation or base. This fundamental problem, along with issues with the flooring and component alignment, made it difficult to create an airport lobby that is both aesthetically pleasing and sound functionally.

In summary, better time management techniques, attention to minute details, and better organisation within the design software would have all made a big difference in how smoothly and successfully the airport project was completed.

Comment on the Final Quality of the project

The project's final quality is a bit of a mixed bag. I'm proud of certain things, for sure, but there are other things that didn't live up to my standards. For example, I think the project has some merit even though it has some serious errors that I was unable to fix. I'm sorry I couldn't correct some of the mistakes and add extra features like night lighting and necessary fixtures like bins. By completing the gaps in the design, these additions could have improved the space's overall functionality and aesthetics.

I am satisfied with certain structural aspects of the airport model. Positive features include the layout and arrangement of terminals in the airport lobby as well as the use of glass roofs. These highlights, however, are somewhat overshadowed by the ongoing errors, particularly in crucial areas like the flooring and component alignment. The project's overall aesthetic and functional appeal has been harmed by these mistakes.

Taking steps to address the mistakes made during the design process would have improved the project's quality significantly. These upgrades might have raised the bar for the entire model, guaranteeing a more well-made and useful product. A more comprehensive and user-friendly airport design would have resulted from the addition of minor but important details like lighting for various times of the day and bins.

In conclusion, the structural elements and design distribution of the airport have some positive aspects, but the overall quality is compromised by mistakes that have not been fixed and the omission of some crucial parts, which has an impact on the final model's appearance and functionality.

Project management skills evaluation

My project management abilities were obviously deficient in several areas during this project. One notable weakness was time management. I found it difficult to divide up my time between the project's phases. This unstructured approach to time management resulted in inefficiencies, which occasionally compromised the quality of the work and delayed task completion.

Moreover, there was a lack of organisation in the design programme, SketchUp. The project's advancement was hampered by lags and crashes caused by the software's poor component management and the airport model's structural organisation. These difficulties were signs that the project's resource management was inadequate.

Areas for improvement

After giving this project some thought, a few tweaks could have been made to improve the result. First and foremost, time management required a more structured and disciplined approach. Task management would have been more effective if there had been a defined timeline for every stage of the project and it had been followed. Additionally, it would have made it possible to allocate time to the project's various sections more evenly, avoiding hurried work and mistakes in important design details.

It was also crucial that I sharpen my abilities in software management, especially with applications like SketchUp. A smoother workflow and a lower likelihood of losing progress owing to technical problems could have been ensured by learning how to arrange components more efficiently and making the best use of software features.

It would have also been advantageous to pay more attention to detail and carry out routine quality checks during the design process. This could have assisted in identifying errors early on, enabling prompt correction and a better calibre of output in the end.

Overall, a more successful and polished project outcome would have resulted from increasing software proficiency, honing time management skills, and paying closer attention to detail.

(I had a more complete folio for this but was unable to submit it here as to it contained 53mb. I tried to bring the most important component here.)

Referencing

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