iJRASET
International Journal For Research in Applied Science and Engineering Technology



INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Volume: 14 **Issue:** II **Month of publication:** February 2026

DOI: https://doi.org/10.22214/ijraset.2026.77618

www.ijraset.com

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International Journal for Research in Applied Science & Engineering Technology (IJRASET)
ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538
Volume 14 Issue II Feb 2026- Available at www.ijraset.com

Impact of Airport Boarding Gate Terminal Design on Traveler's Experience

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Abstract: ***This research explores about one's experience in the boarding gate terminal of an airport as it's architecture plays a pivotal role in shaping the travel experience, requiring a comprehensive understanding of its multifaceted functionality. Each terminal design is a product of meticulous planning and analysis, considering both practical and emotional dimensions. Airports often serve as the first point of contact for visitors, acting as gateways that set the tone for the entirety of their journey. Consequently, the design of these spaces must ensure seamless operational flow while fostering a welcoming atmosphere. Moreover, airport designs must accommodate future growth and technological advancements, ensuring scalability and adaptability. The strategic integration of architectural principles is vital for enhancing operational efficiency, optimizing economic outcomes, improving safety and security measures, and addressing the diverse needs of passengers. By prioritizing these considerations, architects and planners can create airports that not only meet current demands but are also prepared for future challenges, thus ensuring their long-term sustainability and success. The study will be done using a mixed-methods approach, combining surveys to collect quantitative data from diverse age groups and case studies to gain qualitative insights into how lighting, amenities, aesthetics, and seating impact travelers' experiences.***

Keywords: Impact, Boarding Gate, Airport Terminal, Architecture, Experience.

I. INTRODUCTION

Airport architecture is a fascinating and dynamic field that merges creativity with functionality to design spaces that not only serve the aesthetic interests of travelers but also meet the operational needs of millions of people worldwide. The design of an airport plays a crucial role in shaping a passenger's experience from the moment they step into the terminal until they board their flight. The architecture of an airport profoundly influences how passengers navigate, feel, and interact with the space, affecting both their practical and emotional journey.

Several key factors drive the evolution of airport design, including airline growth, changing aircraft characteristics, the need for enhanced safety and security, and the growing focus on commercial viability. In addition, technological advances—such as automation, mechanization, digitization, and improved communication systems—have enabled airports to adapt and avoid obsolescence, ensuring they remain relevant in an ever-changing industry.

This paper will explore how various design elements impact travelers, such as efficiency and passenger flow, comfort and well-being, aesthetic and cultural connections, sustainability and environmental considerations, technology integration, stress-reducing design, and sense of security. As airports face the challenge of accommodating larger volumes of passengers while ensuring good aesthetics, diverse services, and security, understanding the full impact of airport design becomes essential for creating spaces that enhance traveler satisfaction and streamline operations.

The primary analysis was conducted through a survey that gathered responses on seating sufficiency, comfort levels, availability of amenities such as charging points and food stalls, and the emotional or psychological impact created by the surrounding environment. The findings help identify how these factors collectively shape the passenger experience at airport boarding gates.

II. LITERATURE REVIEW

A. Airport Terminal Seating

Airport terminal seating design plays a crucial role in passenger satisfaction and efficient terminal operations. Passengers prefer seats with ample space for luggage, good visibility of surroundings, and flight information displays (Zheng, 2014; Milbredt et al., 2018). Symmetrical seat arrangements facilitate smooth traffic flow, while seats with tables enhance convenience (Zheng, 2014).

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The optimal number of seats and lounge size can be determined by balancing costs and passenger comfort, considering factors such as standing time penalties (Wirasinghe & Shehata, 1989). Information provision is highly valued by passengers, with large displays strategically placed near service points to enhance visibility and promote communication (Milbredt et al., 2018). Interestingly, while information and seat availability are significant factors influencing passenger perceptions of terminal performance for circulation and waiting areas respectively, waiting time is more important for processing elements (Seneviratne & Martel, 1991). Passengers traveling in groups prefer semi-private spaces with interactive entertainment during airside dwell-time . Innovative furniture designs, can create adaptable, group-friendly spaces that enhance passenger comfort and contribute to a circular economy through product leasing (Homburg, 2017)

These findings highlight the complex interplay of factors affecting airport terminal seating design and passenger satisfaction.

B. Airport Terminal Lighting

Airport terminal lighting has evolved to address energy efficiency, maintenance, and human factors concerns. Modern designs incorporate energy-conserving products and sophisticated techniques to reduce costs while maintaining an inviting atmosphere (Oliver, 1997). LED airfield lighting offers advantages over incandescent systems, including higher luminous efficacy and longer operating lives. Studies have shown that LEDs perform well in color identification, visibility in fog, and response to flashing lights (Bullough, 2017). In airport buildings, implementing shading and lighting control schemes can significantly reduce energy consumption. Correlations between ceiling and work plane illuminances have been used to develop effective control algorithms for perimeter zones with large glass facades (Tzempelikos, 2012).

Ongoing research examines LED system performance in apron lighting, with long-term monitoring of illuminance levels to assess durability and efficiency (Davis & Wilkerson, 2015). Research has explored the effects of correlated color temperature (CCT) on wayfinding in airports, finding that higher CCT (12,000 K) reduces hesitation compared to lower CCT (3000 K) (Kumoglu et al., 2018).These advancements contribute to improved energy efficiency and operational effectiveness in airport lighting systems.

C. Airport Terminal Aesthetics

The study examines the role of artworks in wayfinding and enhancing consumer activity in airport terminals. Strategically placed as landmarks, these artworks aid orientation and attract passengers to retail areas. Planners often choose regionally themed or movement-inspired pieces, aiming to stimulate spending. The paper highlights the contrast between artworks symbolizing free movement and the controlled nature of air travel, questioning whether these representations serve practical functions in terminal design (Hubregtse, 2016). As air travel continues to grow, the importance of aesthetically pleasing and functional airport terminals remains paramount. Airport terminal aesthetics play a crucial role in shaping passenger experiences and city impressions. Terminals serve as gateways to cities, representing their identity and pride (Patil & Raj, 2019). The facade design is particularly important, as it's the first visual element encountered by visitors (Muttaqien et al., 2020). Aesthetics have both internal user impacts and external community effects (Fruin, 1972). Facility aesthetics have been found to be the strongest component of airport physical surroundings in eliciting satisfaction, which in turn significantly influences behavioral intentions (Moon et al., 2017). Terminal design must balance various factors, including passenger comfort, airline operational needs, safety, and environmental considerations (Patil & Raj, 2019). The application of aesthetic principles to facade elements such as entrances, windows, and roofs is essential for maximizing the aesthetic appeal of airport terminals (Muttaqien et al., 2020).

D. Airport Terminal Amenities

Airport terminal design has evolved to prioritize passenger experience and revenue generation. Modern terminals focus on providing amenities like Wi-Fi, location-based services, and improved restrooms to meet changing traveler needs and expectations (Goodpasture & Hubbell, 2016). As terminals expand, various mobility systems such as moving sidewalks, courtesy carts, buses, and automated people movers are implemented to enhance passenger movement (Leder, 1991). They are designed for long-term use, incorporating passenger comfort, airline operations, and environmental sustainability (Patil & Raj, 2019). Terminal design principles encompass security, baggage handling, immigration, commercial activities, and passenger processing. The integration of public transport links and the consideration of passenger perceptions are crucial aspects of modern airport planning (Guild & Selm, 1998). Airport passenger terminals must address the physical and psychological needs of various users, including employees, passengers, and their escorts.

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This paper emphasizes the importance of efficient navigation through terminals to minimize unproductive time and eliminate uncertainties for passengers. the study reviews the extent to which passenger needs are met by following conventional "handbook" design procedures, suggesting that current approaches may not fully satisfy all user requirements in airport terminals (Caves & Pickard, 2001).

These developments aim to create efficient, comfortable, and aesthetically pleasing airport experiences.

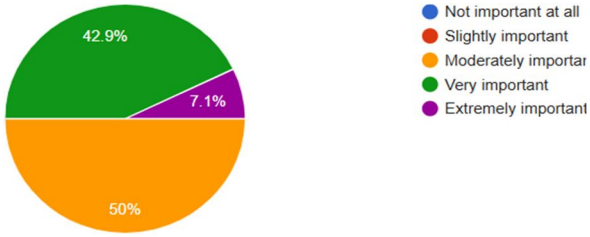
III. METHODOLOGY AND ANALYSIS

This study presents the way how various parameters like seating layouts, aesthetics of the terminal, amenities provided influence a traveler's state of mind and experience in airports. The objective of this study is to know the correlation between airport boarding gate design and traveler's experience so the future designing of airport terminal gateways will be improved and satisfy every traveler.

The primary analysis was done by conducting a survey among a group of 50 people regarding the seating comfort, amenities provided and emotional state influenced by the surrounding aesthetics. Boarding gate terminal design was chosen to meet the research goals. As a part of analysis, seating sufficiency was checked, availability of amenities like charging stations and food stalls was checked and kind of psychological impact due to surrounding space was understood. The collected data is as follows:

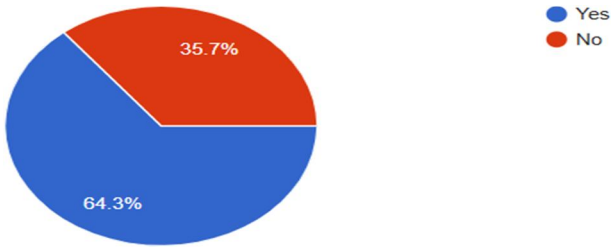
How important is boarding gate terminal design to your overall experience ?

This shows that design of airport boarding gate terminals is important because it impacts the efficiency, comfort, and overall passenger experience, as well as operational effectiveness for airlines.



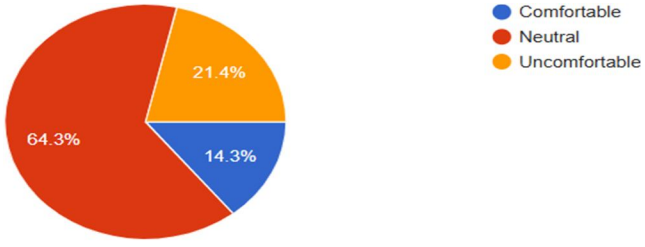
Do you usually find enough seating at boarding gates?

Adequate seating at airports is essential for passenger comfort, efficient boarding, and smooth operations. Insufficient seating leads to frustration, overcrowding, and disrupted passenger flow, while thoughtful seating design enhances satisfaction, inclusivity, and airport functionality.



How would you describe the comfort of the seating at boarding gates?

Comfortable seating at boarding gate terminals is vital for improving passenger well- being. It reduces stress, supports travelers with diverse needs (e.g., families, elderly, or those with disabilities), and fosters a positive airport experience. Additionally, comfortable seating contributes to efficient boarding by keeping passengers organized and close to the gate. By prioritizing comfort, airports enhance their reputation, increase passenger satisfaction.



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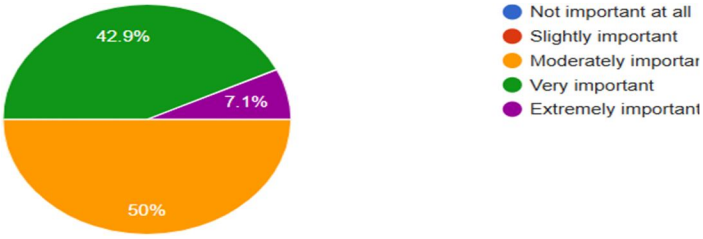
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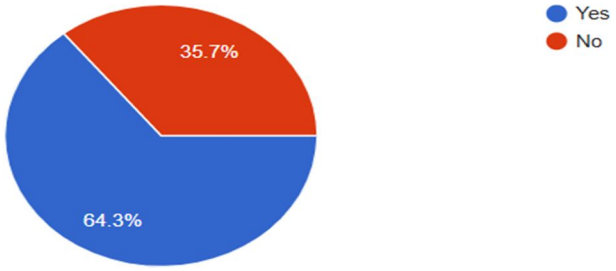
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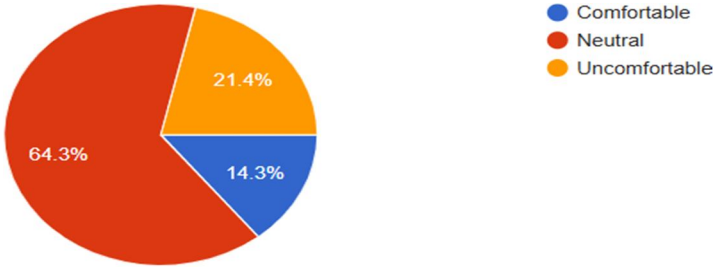
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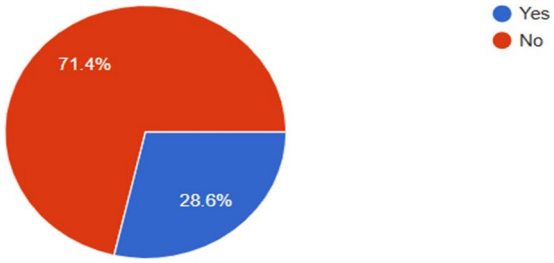
Comfortable seating at boarding gate terminals is vital for improving passenger well- being. It reduces stress, supports travelers with diverse needs (e.g., families, elderly, or those with disabilities), and fosters a positive airport experience. Additionally, comfortable seating contributes to efficient boarding by keeping passengers organized and close to the gate. By prioritizing comfort, airports enhance their reputation, increase passenger satisfaction.



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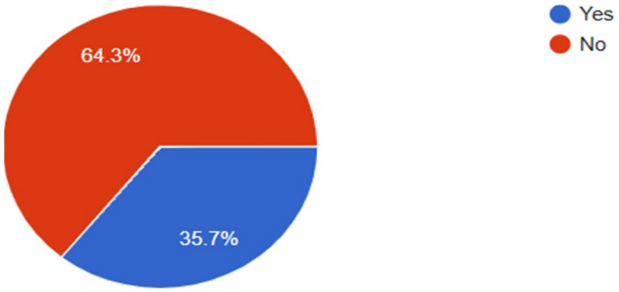
Have you experienced difficulty navigating or finding information at the boarding gate terminal ?

Efficient navigation and access to information in airport terminals are crucial for reducing passenger stress, ensuring timely boarding, and maintaining smooth airport operations. Clear signage and wayfinding enhance traveler satisfaction and prevent delays.



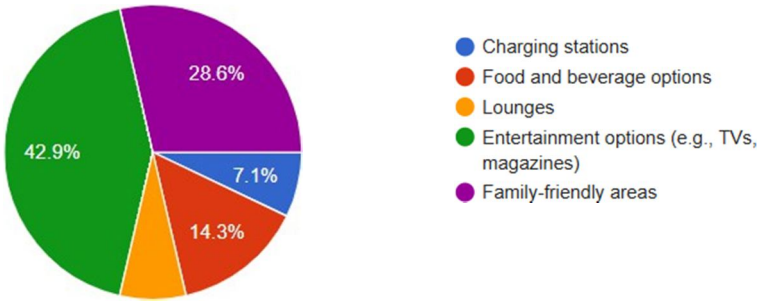
Are there enough charging outlets available at boarding gates?

The availability of charging stations at airports is essential for passenger convenience, allowing travelers to stay connected, productive, and entertained. It enhances satisfaction and meets the growing reliance on electronic devices during travel.



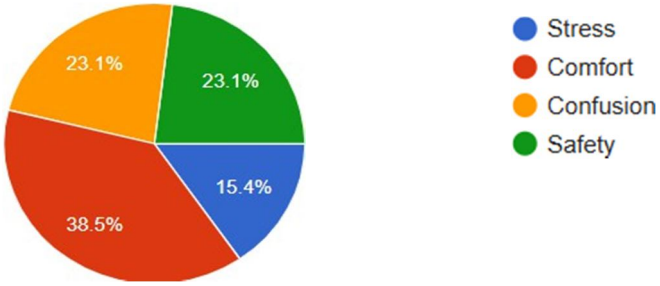
What amenities would improve your experience at boarding gates?

The availability of amenities at airports enhances passenger comfort, satisfaction, and overall travel experience. Well-designed amenities cater to diverse needs, promote relaxation, while also boosting airport revenue and reputation.



How would you describe your emotional state while waiting at the boarding gate?

The psychological impact while traveling is highly important, as it directly affects passenger well-being,& decision-making. Factors like anxiety, comfort, and ease of navigation can influence mood and the ability to handle unexpected situations. Airports and travel services that address psychological needs through comfort- focused design, and supportive amenities create a more positive and memorable travel experience.



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ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538
Volume 14 Issue II Feb 2026- Available at www.ijraset.com

The survey analysis indicates that passengers are moderately satisfied with the current terminal design at airports. However, the lack of certain amenities, insufficient seating, inadequate signage, and the absence of a calming design contribute to decreased overall satisfaction and operational efficiency. To enhance the passenger experience and alleviate stress, it is crucial to improve the availability and efficiency of these elements. Accessible amenities play a vital role in increasing convenience, promoting relaxation, and reducing discomfort during long waiting periods. Additionally, psychological factors such as stress and anxiety significantly impact passenger well- being, with well-designed terminals helping to mitigate these negative effects.

A. Case Study 1 : Bangalore Airport Terminal 2



Kempegowda International Airport T2 _© Ar. Ekansh Goel © Studio Recall

1) Airport Seating: The seating in Terminal 2 is thoughtfully designed to prioritize ergonomics and traveler comfort. It features options like comfortable armrests, ample legroom, and furniture that blends seamlessly with the terminal's natural and contemporary aesthetic. A variety of seating arrangements, including regular benches, lounge chairs, and charging stations integrated with seats, cater to different traveler needs. Family-friendly spaces and group seating areas enhance versatility. Moreover, the use of sustainable materials, such as wood, reflects the terminal's eco-conscious philosophy and adds to its earthy charm.
2) Airport Lighting: Lighting at T2 is a standout feature, with a focus on sustainability and ambiance. The terminal makes extensive use of natural light through large skylights, glass panels, and open spaces, creating a bright, airy, and eco-friendly atmosphere. This natural lighting is complemented by strategically placed artificial lighting, with energy-efficient LED lights offering adjustable tones to create a warm and welcoming environment. The lighting system highlights design elements, reduces glare, and aligns with the terminal's sustainability goals, making the space both functional and visually appealing.
3) Airport Aesthetics: T2 is celebrated for its nature-inspired design, earning it the title of "Terminal in a Garden." Greenery is incorporated throughout, with vertical gardens, open courtyards, local flora, water features, and bamboo-clad walls adding to its organic charm. The terminal also pays homage to Karnataka's heritage through murals, artworks, and traditional motifs, creating a cultural connection for travelers. Its architecture features high ceilings, spacious walkways, and minimalistic structures, blending modernity with an earthy aesthetic. Natural materials like wood and stone further enhance the terminal's warmth and connection to nature.
4) Airport Amenities: The amenities at T2 are designed to provide a world-class experience for travelers. Retail and dining options feature a mix of international brands and local flavors, showcasing Karnataka's cuisine and crafts. Spacious food courts offer diverse culinary choices and ample seating. The terminal is equipped with tech-driven services like automated check-ins, baggage drop facilities, and smart security systems, along with widely available charging points and free Wi-Fi. Luxurious lounges cater to premium travelers, offering comfort, privacy, showers, and workspaces. Family-friendly features like dedicated play areas and inclusive amenities for differently-abled passengers further enhance accessibility. Sustainability remains a core focus, with rainwater harvesting, renewable energy use, and water recycling systems integrated into the terminal's operations.

The analysis from case study shows T2 is a cutting-edge, sustainable space that provides a seamless and immersive travel experience, rooted in nature and designed with passenger comfort in mind.

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PARAMETERS	IMPACT RATE (1 BEING LOWEST AND 10 BEING HIGHEST)	DESCRIPTION
SEATING	7	The seating at offers several benefits, including ergonomic designs and spacious lounges that prioritize passenger comfort. The seating is well-integrated with greenery and natural elements, creating a calming and refreshing environment. Exclusive seating areas are available for premium passengers, ensuring a more personalized experience. Additionally, the terminal's layout ensures easy access to key amenities and services However, there are some drawbacks. Premium seating areas may be insufficient during peak hours, leading to overcrowding. Public seating areas can feel exposed, especially in high-traffic zones. The availability of charging stations near seating could also be improved
LIGHTING	7	The lighting design maximizes natural light through the use of skylights and large glass windows, creating a bright and airy atmosphere that aligns with the terminal's garden-inspired design. The strategic use of solar shading and daylight harvesting helps improve energy efficiency while maintaining a comfortable environment The integration of artificial lighting, such as custom light fixtures, enhances the terminal's aesthetic appeal However, some challenges exist. While the natural light creates a welcoming atmosphere, during peak hours or overcast weather, there may be insufficient lighting in certain areas, especially if the terminal is crowded. Additionally, the balance between natural and artificial lighting needs to be carefully managed at areas that feel too dim, potentially affecting passenger comfort
AESTHETICS	9	The aesthetics effectively combine natural elements with modern design, creating a calming and immersive environment. The use of greenery, indoor plants, and materials like bamboo and stone enhances traveler's experience . However, the terminal's open design can sometimes feel exposed, particularly in busy areas,
AMENITIES	8	The amenities offer significant advantages, such as expansive retail and dining areas, 5G connectivity, and efficient passenger services like fast-track check-ins and modern security lanes These features ensure a comfortable and seamless experience for travelers, with a variety of local and international brands available. Additionally, the terminal's sustainability-focused amenities, align with its environmentally conscious design However, some challenges exist. The availability of charging stations in certain seating areas could be improved, and the sheer size of the terminal may make it feel overwhelming for passengers during peak hours. While the variety of amenities is extensive, overcrowding in certain retail or dining areas may reduce convenience during busy travel times

ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538
Volume 14 Issue II Feb 2026- Available at www.ijraset.com

B. Case Study 2 : Changi International Airport, Singapore



https://www.architecturaldigest.in/content/singapo re-changi-airport-worlds-tallest-indoor-waterfall- safdie-architects/

Changi International Airport prioritizes a seamless and luxurious passenger experience by integrating comfortable seating, well-thought-out lighting, nature-inspired aesthetics, and world-class amenities. These features not only improve functionality but also elevate the airport to a destination in itself, offering travelers relaxation, entertainment, and convenience at every turn.

PARAMETERS	IMPACT RATE (1 BEING LOWEST AND 10 BEING HIGHEST)	DESCRIPTION
SEATING	9	Changi Airport offers a variety of seating options tailored to passenger needs, including ergonomic benches, cushioned armchairs, and reclining chairs for relaxation. Specialized nap zones feature lounge-style recliners in quiet, dimly lit areas for comfort. The seating is strategically placed near charging ports and tables to accommodate both leisure and work. Accessibility and functionality are key, ensuring that travelers of all demographics are catered to, including families and business travelers.
LIGHTING	8	Lighting at Changi combines natural and artificial sources to create a pleasant and energy-efficient environment. Floor-to-ceiling windows and skylights bring in abundant daylight, while adaptive LED lighting adjusts to the needs of different zones. Relaxation areas use soft, warm lights, while retail spaces are brightly illuminated to enhance product displays. During night hours, dimmed lighting in certain areas creates a tranquil ambiance for resting passengers.
AESTHETICS	9	The airport's design blends nature with modernity, using open spaces, high ceilings, and nature-inspired elements to create a soothing atmosphere. Features like the Jewel Rain Vortex and themed gardens (e.g., Butterfly and Orchid Gardens) integrate greenery into the airport experience. Neutral tones dominate the color palette, complemented by bursts of greenery and vibrant retail zones. Art installations and sculptures further enhance the visual appeal, making the airport a destination in itself.
AMENITIES	8	Changi's amenities cater to diverse needs, offering entertainment zones with gaming lounges, movie theaters, and interactive gardens, as well as designated play areas for children. Rest options include nap pods and spa services for rejuvenation. For business travelers, there are workstations, meeting rooms, and free high-speed Wi-Fi. Dining and shopping options range from local delicacies to luxury brands, and technology-enabled services like automated check-ins and wayfinding systems ensure convenience. These amenities transform Changi into a seamless and enjoyable travel hub.

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V. CONCLUSION

The design of airport boarding gate terminals, including seating, lighting, amenities, and aesthetics, significantly impacts travelers' experiences. Comfortable seating, effective lighting that promotes relaxation, and essential amenities like charging stations and food outlets enhance convenience and reduce stress. Aesthetically pleasing design, with modern architecture and thoughtful visual elements, creates a welcoming atmosphere and improves overall satisfaction. Together, these factors contribute to a more comfortable, enjoyable, and stress-free airport experience, fostering positive perceptions of the airport and its services.

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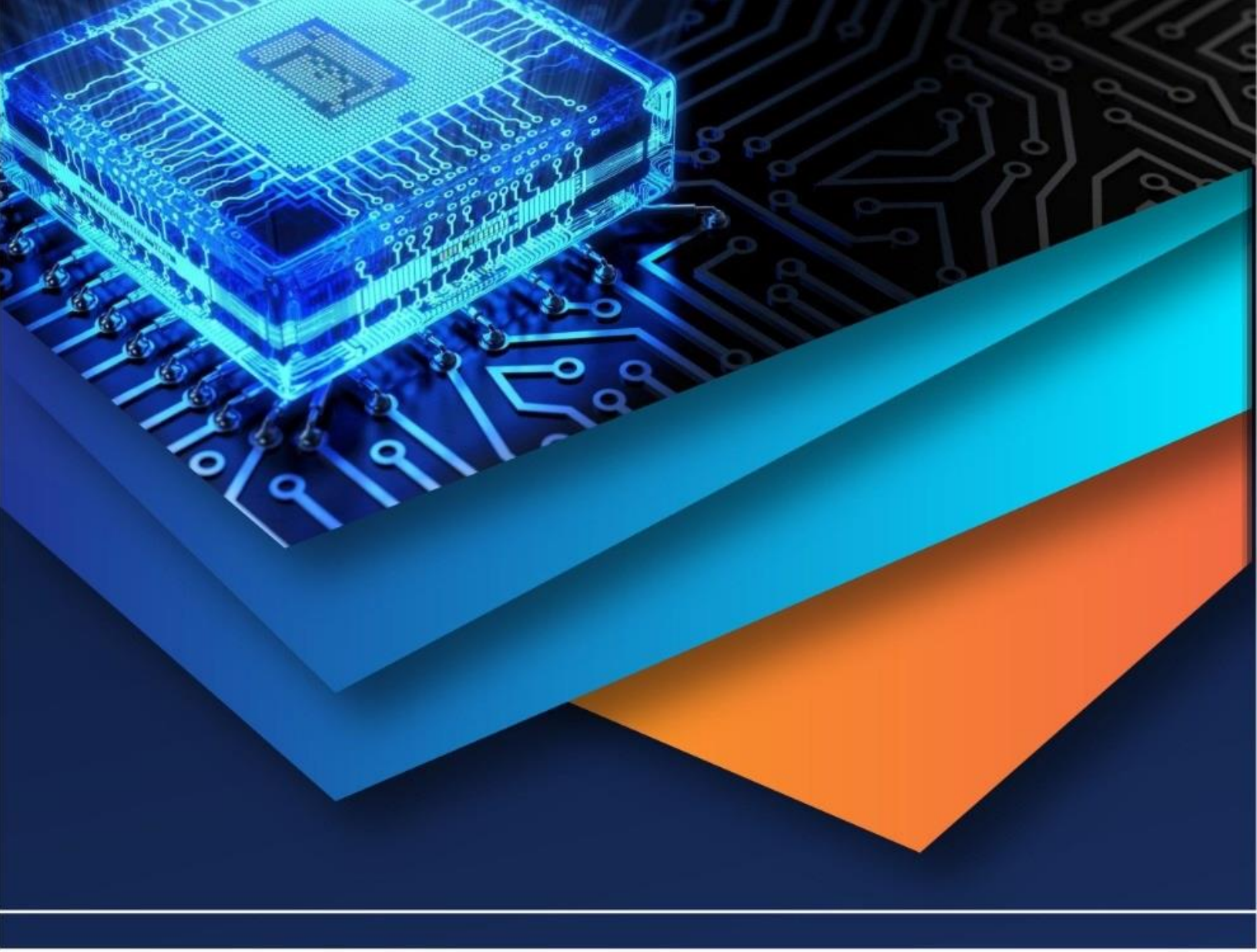
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