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PROJECT MANAGEMENT REPORT **ON**

"Projects and Challenges Faced During Project Initiation"

Bachelor of Technology

in

Mechanical Engineering

by

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We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, We have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or falsified any idea / data / fact / source in our submission. We understand that any violation of the above will be cause for disciplinary action by the PANDIT DEENDAYAL ENERGY UNIVERSITY.

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Abstract

Project initiation is a crucial phase in project management, setting the stage for a project's success. This research article explores various projects from different industries, highlighting the challenges encountered during their initiation phases. By analysing these case studies, we aim to identify common challenges and effective strategies to address them. Additionally, this article provides an overview of key activities typically conducted during the project initiation phase.

Keywords: Project Charter, Scope, Challenges, Initiation phase, Animal complex, Race car, Central Vista, Drones, Airport

1. Introduction

Project initiation is the genesis of any successful endeavor, where objectives are defined, stakeholders are identified, and feasibility assessed. It is a critical juncture that significantly influences a project's outcome. However, project initiation is fraught with challenges, some universal and some specific to the project's nature. In this research article, we examine a diverse set of projects, each representing a different industry, to elucidate the challenges faced during initiation and the strategies employed to overcome them. We also outline the fundamental activities that constitute the project initiation phase.

In the dynamic landscape of modern business and project management, successful project initiation stands as a critical precursor to achieving project objectives. The process of project initiation represents the pivotal moment when an idea transforms into a concrete plan, setting the stage for its execution. It is during this phase that project managers and stakeholders delineate the project's scope, goals, objectives, and initial strategy, thereby laying the foundation for its entire lifecycle.

However, the journey of project initiation is not devoid of challenges. In fact, it is a phase fraught with complexities and uncertainties that can significantly impact the ultimate success or failure of a project. This research paper delves into the multifaceted realm of project initiation, exploring its essential components and the myriad challenges that organizations and project teams encounter as they embark on this critical phase.

Project initiation is not a one-size-fits-all process; it varies across industries, organizations, and even individual projects. Factors such as project size, industry regulations, team dynamics, and the project's strategic importance all influence the initiation process. This research paper will provide a comprehensive overview of project initiation, considering its universality and its contextual nuances.

Moreover, the paper will delve into the core challenges that project stakeholders face during initiation. These challenges can span a wide spectrum, encompassing issues related to stakeholder alignment, resource allocation, risk assessment, and scope definition. By dissecting these challenges, we aim to provide valuable insights and practical recommendations to mitigate their impact and enhance the prospects of project success.

Throughout this research paper, we will draw upon real-world case studies, industry best practices, and expert insights to shed light on the intricacies of project initiation and the strategies employed to overcome its associated challenges. In doing so, we hope to equip project managers, leaders, and organizations with the knowledge and tools necessary to navigate the complexities of project initiation effectively.

In conclusion, project initiation serves as the cornerstone of project management, marking the inception of every endeavor. Understanding its significance and addressing the challenges it poses is imperative for achieving successful project outcomes. This research paper will serve as a valuable resource for project professionals and researchers seeking to enhance their understanding of project initiation and the hurdles it presents in today's dynamic business environment.

2.Literature Review

Project initiation is a pivotal phase in project management, with significant implications for project success. It is during this phase that the project's objectives, scope, stakeholders, and constraints are defined. The literature on project initiation highlights several key aspects and challenges:

Stakeholder Identification and Engagement: Engaging stakeholders effectively during initiation is crucial. The literature emphasizes the importance of identifying all relevant stakeholders, understanding their interests, and engaging them early in the project to gain their support and alignment with project goals.

Project Charter Development: The project charter serves as a foundational document during initiation. It defines the project's purpose, objectives, scope, budget, and timeline. Literature underscores the need for a well-crafted charter that provides clarity and direction for the project team.

Regulatory and Compliance Considerations: Depending on the industry and project type, regulatory requirements can pose significant challenges during initiation. Projects may need to navigate complex permitting processes, environmental assessments, or compliance with industry-specific standards.

Budget Allocation and Cost Estimation: Effective budget allocation and accurate cost estimation are critical during initiation. The literature emphasizes the need for thorough financial planning, risk assessment, and contingency planning to manage budget constraints effectively.

Risk Assessment and Mitigation: Identifying and mitigating risks is an integral part of project initiation. Literature highlights the importance of conducting comprehensive risk assessments and developing risk mitigation plans to address potential challenges proactively.

Public Perception and Community Engagement: In projects with a public or community impact, managing public perception and engaging with the local community are vital. Literature suggests that open and transparent communication can help mitigate opposition and build community support.

3. Methodology

This research article utilizes a multi-industry approach, drawing on a variety of projects and case studies. We conducted an extensive review of project management literature, industry reports, and project documentation to compile our findings. The selected projects span different sectors, including construction, information technology, healthcare, renewable energy, urban development, aerospace, and education. By analysing these case studies, we aim to offer insights into the challenges of project initiation and the methods used to surmount them.

4.Examples

4.1 Project Name: Aimmal Office Complex in Abu Dhabi

Project Initiation Phase

Project Charter Development: The project charter formally initiates the Aimmal office complex and parking lot Project. It is issued by the government agency responsible for urban development and outlines the project's purpose and objectives.

Project Purpose: To stimulate economic growth, create employment opportunities, and improve the retail infrastructure in Abu Dhabi city by constructing an office complex.

Project Scope: Aimmal Corporation has its headquarters in Ajman, Arab Emirates. The project aims at realizing new Aimmal offices in Abu Dhabi. The offices will be located in the city centre. An underground parking lot will be built as well as restaurants and a pied-a-terre for the Top Management of Aimmal.

Project Manager: Massimo Longo

Level of Authority: Full Decision And Spending Authority

Project Sponsor(s): Federico Lazzarin

Type of Project Sponsor: Aimmal CEO

Objectives:

The project is part of our strategic expansion plan in the Arab countries. With this project we also establish a strategic partnership with Novarasnc. This collaboration will enhance the chance of success in future project biddings thanks to their innovative system. The overall infrastructure of the lighting system and climate control will be developed by the DeCarlo spa. The project aims at developing a strong relationship with the DeCarlo spas well.

Key Stakeholders:

Name	Title	Organization	
John Moore	Project Sponsor	Aimmal Corp	
Frank Underwood	Sub-Contractor	Piling Company	
Marco Grillo	Chief Architect	Studio Novara s.n.c.	
Paolo Burchio	Solar Radiation System Proj. Manager	De Carlo s.p.a	
Mohammed Abakir	Local Authority	Construction Government Office	

Budget: Parking Construction =\$10M USD

Tower Construction =\$200M USD

Solar Radiation System =\$10M USD

TOTAL =\$320M USD

Contingency Reserve (%15) = \$48M USD

Management Reserve (%3) =\$10M USD

Timeline: The project is expected to span three years, with construction starting in six months.

Stakeholder Identification and Analysis:

John Moore. Aimmal Construction wants to be the first real estate company in AbuDhabi.

Frank Uderwood and its Dandy Constructions with this project want to develop its business in the Arab countries.

Marco Grillo. They want to maintain the well established reputation with this project.

Marco Grillo and Paolo Burchio. They want to deploy their innovative system and open the market in the Arab country.

Mohammed Abakir. Improve the beauty and majesty of the city towards Expo 2020

StakeholdersEngagement: Communication Plan is to be defined according to stakeholder requirements. Because of the language barrier, communication will mainly be written.

Monthly status updates will be provided to stakeholders.

Feasibility Study:

A feasibility study assesses the viability of the project, considering factors such as market demand, economic feasibility, and legal constraints.

Market research reveals a growing demand for modern shopping facilities in Vadodara.

Economic analysis projects a positive return on investment over a 10-year period.

Legal experts review land acquisition and regulatory compliance requirements.

Constraints: Project has to terminate before 30thJune 2016 date of Expo 2020 world presentation.

Budget cannot exceed total contingencies. Formal written communication will be in Arab and English language.

Assumptions: Authorizations will not delay more than 30 days from request presentations.

Payments will not be delayed.

No more than 15 non-working days due to adverse climate conditions are considered.

Risk Assessment:

A risk assessment identifies potential risks and uncertainties, including delays in regulatory approvals, cost overruns, and construction delays.

A risk management plan outlines strategies for mitigating these risks, such as maintaining open communication with stakeholders and implementing a robust project management framework.

- 1.Because there may be changes due to the Foundations, the project may require extra work due to unstable terrain.
- 2.Because the Computerized lighting and climate control systems approval may require changes due to its innovative nature, Local Authority may require extra information about it.
- 3.Because the Computerized lighting and climate control systems is the innovation for the Company, it may require extra time and budget for testing and bug-fixing.

Resource Identification:

Resources required for the project are identified, including skilled labour, construction materials, and land acquisition funds.

Procurement plans for materials and services are developed.

Regulatory and Compliance Analysis:

Comprehensive analysis of local, state, and federal regulations, as well as environmental compliance requirements, is conducted to ensure adherence throughout the project.

Project Schedule Development:

An initial project schedule is created, outlining key milestones, such as land acquisition, architectural design, construction commencement, and mall opening.

Communication Plan:

A communication plan defines how information will be disseminated to stakeholders, including regular updates to the public, local businesses, and government authorities.

Quality Management Plan:

A quality management plan is developed to ensure construction and safety standards are met, and it includes quality control processes and inspections.

Procurement Strategy:

The procurement strategy includes competitive bidding for construction contracts, vendor selection criteria, and sourcing materials and services from reputable suppliers.

Team Formation:

A project team is formed, including architects, engineers, construction managers, legal advisors, and communication specialists. Roles and responsibilities are clearly defined to ensure efficient execution.

Challenges:

Regulatory and Permitting Hurdles: Obtaining the necessary permits and approvals from local and state authorities can be time-consuming and complex. Zoning regulations, environmental impact assessments, and compliance with building codes must all be addressed.

Land Acquisition: Acquiring the required land for the project may involve negotiations with multiple landowners, some of whom may be reluctant to sell. Land prices and legal complexities can also pose challenges.

Budget Allocation: Securing the estimated budget for the project can be challenging, especially if there are competing priorities for government funds. Ensuring that funds are allocated and disbursed on time is crucial to keep the project on schedule.

Public Opposition: Local residents and businesses may raise concerns about the project's impact on traffic, noise, and the local community. Managing public perception and addressing these concerns can be challenging.

Market Volatility: Economic conditions and market demand for retail space can fluctuate. Changes in market dynamics could affect the project's feasibility and profitability.

Political and Administrative Changes: Changes in government leadership or administrative processes can disrupt project continuity. It's essential to maintain stability and commitment to the project across political cycles.

Environmental Compliance: Meeting environmental regulations and ensuring sustainability can be a complex process. Mitigating potential environmental impacts, such as habitat disruption or resource consumption, is essential.

Stakeholder Alignment: Achieving alignment and buy-in from all project stakeholders, including government agencies, private developers, and the local community, can be challenging due to differing interests and priorities.

Project Scope Creep: As the project progresses, there may be pressure to add new features or expand the scope beyond the original plan. Managing scope changes and ensuring they align with project objectives is crucial.

Resource Availability: Ensuring a consistent supply of construction materials, skilled labour, and equipment can be challenging, especially if the project competes with other construction activities in the region.

Public-Private Partnerships (PPP): If the project involves public-private partnerships, negotiating terms, ensuring transparency, and managing the interests of both public and private sectors can be complex.

Risk Management: Developing a comprehensive risk management plan to address potential risks like construction delays, cost overruns, or unforeseen events is essential but challenging due to the project's scale and complexity.

Community Engagement: Keeping the local community informed and engaged throughout the project is vital but can be challenging, as their concerns may evolve as construction progresses.

4.2 Design Project: Building a racecar

Project Name: Design of formula student race car.

Project Initiation Phase

Project Objectives: The objective of this project is to design and build a Formula Student race car that is competitive in the Formula Student competition. The car must be safe, reliable, and easy to maintain. It must also meet all applicable safety and technical regulations.

Project Scope: The scope of this project includes the design and build of the following components:

- Chassis
- Suspension
- Powertrain
- Aerodynamics
- Electrical system
- Cooling system
- Safety systems

Project Schedule: The project is scheduled to be completed within 12 months. The following is a high-level timeline:

- Month 1-3: Design
- Month 4-6: Manufacturing
- Month 7-9: Assembly and testing
- Month 10-12: Competition preparation

Stakeholders: Stakeholders included the designers, students, faculties, college management.

Budget: The estimated budget was 14Lakhs INR.

Timeline: The project was planned to be completed within a years.

Project Team: The project team will consist of the following members:

- Project manager
- Design engineers
- Manufacturing engineers
- · Assembly engineers
- Testing engineers
- Business manager

Project Risks: The following are some of the risks associated with this project:

- Technical challenges: The design and build of a Formula Student race car
 is a complex task, and there is a risk of encountering technical challenges
 that delay the project or increase the cost.
- Budget overruns: There is a risk that the project may exceed the budget due to unforeseen circumstances, such as material shortages or labor disputes.
- Schedule delays: There is a risk that the project may be delayed due to unforeseen circumstances, such as bad weather or supplier problems.
- Regulatory compliance: The car must comply with all applicable safety and technical regulations. There is a risk that we may need to make changes to the car to comply with new regulations, which could impact the timeline and budget.

Project Approvals: This project charter must be approved by the following stakeholders:

- Dean of Engineering
- Faculty advisor
- Team sponsors

Literature Survey:

The paper presents the procedure followed to design the first Formula Student race car of the Aristotle University of Thessaloniki, Greece, with a focus on the design concept of main vehicle parts, suspension adjustments, steering system, and engine modifications

The design process involved the use of a three-dimensional computer-aided design model developed in Autodesk's Inventor, with the space frame designed using load-receiving points as nodes and connected by tubes.

The steering system was designed to provide zero clearance by axially preloading Belleville springs between the two pinions, ensuring permanent contact with the rack.

The differential was mounted in the frame using two L-shaped arms, allowing for independent dismounting or changing of the engine and differential.

The suspension design included adjustments for camber angles, anti-roll bar stiffness, front and rear anti-features, and steering angles to optimize vehicle maneuverability and comply with F-SAE rules.

The paper also highlights the implementation of new features such as the fully adjustable suspension mechanism, steering system, spherical joint mounts, fuel tank, and intake manifold.

Challenges:

- **Setting clear and achievable goals**: The Formula Student competition is a very competitive event, and it is important to set clear and achievable goals for the project. This can be challenging, as the project is complex and involves a lot of uncertainty.
- **Defining the project scope**: The project scope needs to be clearly defined in order to ensure that everyone involved in the project understands the goals and objectives. This can be challenging due to the complexity of the project and the number of different stakeholders involved.
- Identifying and securing resources: The project team will need to be identified and secured. This includes identifying the necessery skills and experience, as well as the budget and resources that will be needed to complete the project.
- **Obtaining approvals:** The project will need to be approved by a number of stakeholders, including the governing body of the racing series, sponsors, and investors. This can be a time-consuming and challenging process.
- Managing risks: The project team will need to identify and manage the
 risks associated with the project. This includes risks such as technical
 challenges, budget overruns, and schedule delays.
- Staying within budget: Race car development can be very expensive. The project team will need to carefully consider the cost of all of the components and subsystems when designing the race car.
- Meeting safety and performance requirements: Race cars must be able
 to withstand the high speeds and forces of racing. They must also be able
 to perform reliably in all weather conditions.

- Complying with regulations: Race cars must comply with the regulations
 of the racing series in which they will compete. The project team will need
 to be familiar with these regulations and ensure that the race car meets all
 of the requirements.
- Balancing innovation with reliability: Race car development is a constant battle between innovation and reliability. The project team will need to strike a balance between developing new and innovative technologies and ensuring that the race car is reliable enough to compete.

In addition to these general challenges, the authors also identify the following specific challenges faced during project initiation for the development and design of a Formula Student race car at the Aristotle University of Thessaloniki:

- Lack of experience and resources: The project team was made up of students, many of whom had limited experience in designing and building race cars. The team also had limited access to resources, such as machine tools and testing facilities.
- Short development time: The team had only 9 months to design, build, and test the race car. This is a very short development time for a complex project such as a Formula Student race car.
- **High expectations:** The Formula Student competition is a very competitive event, and the team faced high expectations from the university and sponsors.

Despite these challenges, the authors were able to successfully design and build a Formula Student race car in just 9 months. The car performed well in the competition, and the team finished in the top 20% of the field.

4.3 Construction Project: Building Central Vista

Project Name: Central Vista Sansad Bhavan

Project Initiation Phase

Project Objectives: The objective of this project is to redevelop the Central Vista, the heart of New Delhi, into a modern, sustainable, and accessible space for all Indians. The project will involve the construction of new government buildings, museums, and cultural centers, as well as the renovation of existing buildings and the creation of new public spaces.

Project Scope: The scope of this project includes the following:

- Construction of new government buildings, including the new Parliament House, the new Prime Minister's Office, and the new Vice President's House
- Construction of new museums and cultural centers, including the National Museum of India and the Indira Gandhi National Centre for the Arts
- Renovation of existing buildings, including the Rashtrapati Bhavan and the North and South Blocks
- Creation of new public spaces, including gardens, plazas, and walkways

Project Deliverables: The deliverables for this project include:

- Fully constructed and equipped new government buildings, museums, and cultural centers
- Renovated and upgraded existing buildings
- New public spaces that are accessible to all Indians
- All necessary permits and approvals

Project Schedule: The project is scheduled to be completed within 5 years. The following is a high-level timeline:

- Year 1: Planning and design
- Year 2: Demolition and site preparation
- Year 3-4: Construction
- Year 5: Testing, commissioning, and occupancy

Project Budget: The total budget for this project is \$20 billion. This includes the cost of land acquisition, design, construction, and equipment.

Project Team: The project team will consist of the following members:

- Project manager
- Construction manager

- Architect
- Engineer
- Interior designer
- Landscape architect
- Historian
- Urban planner
- Financial analyst

Project Risks: The following are some of the risks associated with this project:

- Cost overruns: There is a risk that the project may exceed the budget due to unforeseen circumstances, such as material shortages or labor disputes.
- Schedule delays: There is a risk that the project may be delayed due to unforeseen circumstances, such as bad weather or supplier problems.
- Regulatory compliance: The project must comply with all applicable building codes and environmental regulations. There is a risk that we may need to make changes to the project to comply with new regulations, which could impact the timeline and budget.
- Public opposition: There is a risk that some members of the public may oppose the redevelopment of the Central Vista. This could lead to delays or even cancellation of the project.

Project Approvals: This project charter must be approved by the following stakeholders:

Prime Minister of India

Cabinet of India

Parliament of India

Supreme Court of India

Project Exit Criteria

- The project will be considered complete when the following criteria are met:
- All new government buildings, museums, and cultural centers are constructed and equipped.
- All existing buildings are renovated and upgraded.
- All new public spaces are created and accessible to all Indians.
- All necessary permits and approvals have been obtained.
- The project is within budget and on schedule.
- This project charter is a living document and will be updated as needed throughout the project.

Literature Survey: The Central Vista complex is the center of administration for the nation and serves as the seat of the Government of India. It includes important buildings such as the Rashtrapati Bhavan, North and South Blocks, Parliament House, and the National Archives. The Central Vista Avenue, comprising Kartavya Path and India Gate lawns, is a significant tourist attraction and the site for national festivals and ceremonial events. Rajpath has been renamed as Kartavya Path, symbolizing a shift from a symbol of power to an example of public ownership and empowerment. The Central Secretariat buildings, including Udyog Bhawan, Nirman Bhawan, Shastri Bhawan, and Rail Bhawan, were added post-independence

Challenges:

- Environmental concerns: The Central Vista project has been criticized
 for its environmental impact. The project involves the demolition of
 several historical buildings and the construction of new ones, which will
 lead to the loss of green spaces and an increase in pollution.
- Heritage concerns: The Central Vista project has also been criticized for its impact on India's heritage. The project involves the demolition of several historical buildings, some of which are over 100 years old.
- Transparency concerns: There have been concerns about the transparency of the Central Vista project. The government has not released a detailed project plan or budget, and there have been allegations of corruption.
- Cost concerns: The Central Vista project is a very expensive project. The government has estimated that the project will cost \$20 billion, but some experts believe that the actual cost could be much higher.
- **Public opposition:** There has been public opposition to the Central Vista project. Many people believe that the money could be better spent on other priorities, such as healthcare and education.
- Despite these challenges, the Indian government has said that the Central Vista project will be completed on time and within budget. The government has also said that the project will create jobs and boost the economy.
- It is important to note that the Central Vista project is a controversial project, and there are different perspectives on the challenges faced in project initiation.

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4.4 Building drones for parcel deliveries

Project Name: Building drones for parcel deliveries using rooftops of cities

Project Initiation Phase

Project Scope: The scope of this project includes the construction of a new drone which can be used to deliver parcels using the rooftops of buildings. This method will reduce the number of vehicles on the road eventually leading to lesser congestion, traffic and overall fuel consumption of the nation making it less dependent on fossil fuels.

Project Objectives: The objective of this project is to develop and implement a drone-based parcel delivery system that uses the rooftops of city buildings. The system should be able to deliver parcels quickly, efficiently, and cost-effectively. It should also be safe and reliable.

Project Scope: The scope of this project includes the design, development, and implementation of a drone-based parcel delivery system that uses the rooftops of city buildings. The project will also include the development of any necessary software and hardware components.

Project Deliverables: The deliverables for this project include:

- A fully designed and implemented drone-based parcel delivery system that uses the rooftops of city buildings
- All necessary software and hardware components
- A business plan for the system

Project Schedule: The project is scheduled to be completed within 18 months. The following is a high-level timeline:

- Month 1-3: Design
- Month 4-6: Development
- Month 7-12: Testing and validation
- Month 13-18: Implementation

Project Budget: The total budget for this project is \$5 million. This includes the cost of materials, labor, and testing.

Project Team: The project team will consist of the following members:

- Project manager
- Software engineers
- Hardware engineers
- Drone engineers
- Business manager

Project Risks: The following are some of the risks associated with this project:

- Technical challenges: The design and development of a drone-based parcel delivery system that uses the rooftops of city buildings is a complex task.
 There is a risk of encountering technical challenges that delay the project or increase the cost.
- Budget overruns: There is a risk that the project may exceed the budget due to unforeseen circumstances, such as material shortages or labor disputes.
- Schedule delays: There is a risk that the project may be delayed due to unforeseen circumstances, such as bad weather or supplier problems.
- Regulatory compliance: The system must comply with all applicable safety
 and technical regulations. There is a risk that we may need to make changes
 to the system to comply with new regulations, which could impact the
 timeline and budget.

Project Approvals: This project charter must be approved by the following stakeholders:

- CEO
- CFO
- CTO
- Board of directors

Project Exit Criteria: The project will be considered complete when the following criteria are met:

- The drone-based parcel delivery system has been fully designed and implemented.
- The system has been tested and validated against all requirements.
- The system is ready for commercial operation.

Literature Survey: The paper mentions that there is a lack of studies regarding drone operation planning using the rooftops of buildings within cities, with most studies focusing on truck-drone hybrid delivery systems.

The authors also state that relevant topics on urban logistics and drone-based parcel delivery have been surveyed or studied in recent years, but there is still a gap in research specifically on rooftop-based drone delivery systems.

It is mentioned that commercial optimization software has difficulty in providing optimized planning for large MILP problems in a reasonable time, which highlights the need for alternative approaches like the proposed heuristic in this paper

Challenges:

- **Defining the project scope:** The project scope needs to be clearly defined in order to ensure that everyone involved in the project understands the goals and objectives. This can be challenging due to the complexity of the project and the number of different stakeholders involved.
- Identifying and securing resources: The project team will need to be identified and secured. This includes identifying the necessary skills and experience, as well as the budget and resources that will be needed to complete the project.
- **Obtaining approvals:** The project will need to be approved by a number of stakeholders, including building owners, regulators, and the public. This can be a time-consuming and challenging process.
- Managing risks: The project team will need to identify and manage the
 risks associated with the project. This includes risks such as technical
 challenges, budget overruns, and schedule delays.
- Gaining public acceptance: There is a need to gain public acceptance for the use of drones for parcel delivery. This may be challenging due to concerns about safety, noise, and privacy.
- Coordinating with multiple stakeholders: The project will involve coordinating with a number of different stakeholders, including building owners, regulators, and the public. This can be challenging due to the different interests and needs of these stakeholders.
- **Developing a new business model:** The project will involve developing a new business model for drone-based parcel delivery. This will require careful consideration of the costs, benefits, and pricing of the service.

4.5 Construction Project: Airport Terminal Expansion

Project Name: Airport Terminal Expansion Using BIM

Project Goals:

- To expand the airport terminal to accommodate increased passenger traffic.
- To use BIM to improve the efficiency and quality of the construction process.
- To complete the project on time and within budget.

Project Scope:

The project scope includes the following:

- Design of the new terminal addition.
- Construction of the new terminal addition.
- Integration of the new terminal addition with the existing terminal.
- Commissioning of the new terminal addition.

Project Deliverables:

The project deliverables include the following:

- A complete set of construction drawings and specifications.
- A fully constructed and commissioned terminal addition.
- A BIM model of the new terminal addition.

Project Success Criteria:

The project will be considered successful if the following criteria are met:

- The new terminal addition is completed on time and within budget.
- The new terminal addition meets all quality standards.
- The new terminal addition is integrated with the existing terminal without any disruptions to operations.
- The BIM model is used to improve the efficiency and quality of the construction process.

Project Risks:

The following risks have been identified for this project:

- Delays in obtaining permits and approvals.
- Unforeseen site conditions.
- Changes in the scope of work.
- Bad weather.
- Labor strikes.

Project Mitigation Strategies:

The following mitigation strategies have been developed to address the identified risks:

- Work closely with the permitting and approval authorities to ensure that all necessary permits and approvals are obtained in a timely manner.
- Conduct a thorough site survey before construction begins to identify any potential problems.
- Establish a change management process to manage changes in the scope of work.
- Develop a contingency plan to deal with bad weather or labor strikes.

Project Stakeholders:

The following stakeholders have been identified for this project:

- Airport owner/operator
- Airlines
- Passengers
- Construction contractors
- Subcontractors
- Suppliers
- · Regulatory agencies

Project Communication Plan:

The following communication plan will be used to keep all stakeholders informed of the project's progress:

- Weekly progress reports will be sent to all stakeholders.
- Monthly status meetings will be held with all stakeholders.
- A project website will be created to provide stakeholders with access to project information.

Project Approvals:

This project charter must be approved by the following stakeholders:

- Airport owner/operator
- Project sponsor

Project Challenges:

- Complexity of the project: Airport terminal expansions are complex
 projects that involve a wide range of stakeholders, including the airport
 owner/operator, airlines, passengers, construction contractors,
 subcontractors, suppliers, and regulatory agencies. This complexity can
 make it difficult to coordinate the project and to keep everyone on the same
 page.
- Use of BIM: BIM is a relatively new technology and there is still a learning curve for many people involved in airport construction projects. This can make it difficult to implement BIM effectively and to realize its full benefits.
- **Tight timeline and budget:** Airport terminal expansions are typically carried out under tight timelines and budgets. This can make it difficult to deliver the project on time and within budget, especially if there are unforeseen challenges or changes to the scope of work.
- Minimizing disruption to operations: Airport terminal expansions must be carried out with minimal disruption to ongoing operations. This can be a challenge, especially if the expansion is taking place in a busy airport.

5. Discussion

The case studies presented in this research article highlight the common challenges faced during project initiation across diverse industries. These challenges encompass regulatory compliance, stakeholder engagement, budget management, and public perception. While the specific challenges vary, effective project initiation sets the foundation for addressing them and achieving project objectives.

6.Conclusion

Project initiation is a pivotal phase in project management, and its success shapes the trajectory of a project. By examining a range of projects, we have identified common challenges such as regulatory complexities, stakeholder dynamics, and budget considerations. Successful project initiation requires meticulous planning, proactive stakeholder engagement, and a strategic approach to overcoming challenges. Recognizing the significance of this phase and implementing the strategies discussed in this article can greatly contribute to the successful execution of projects.

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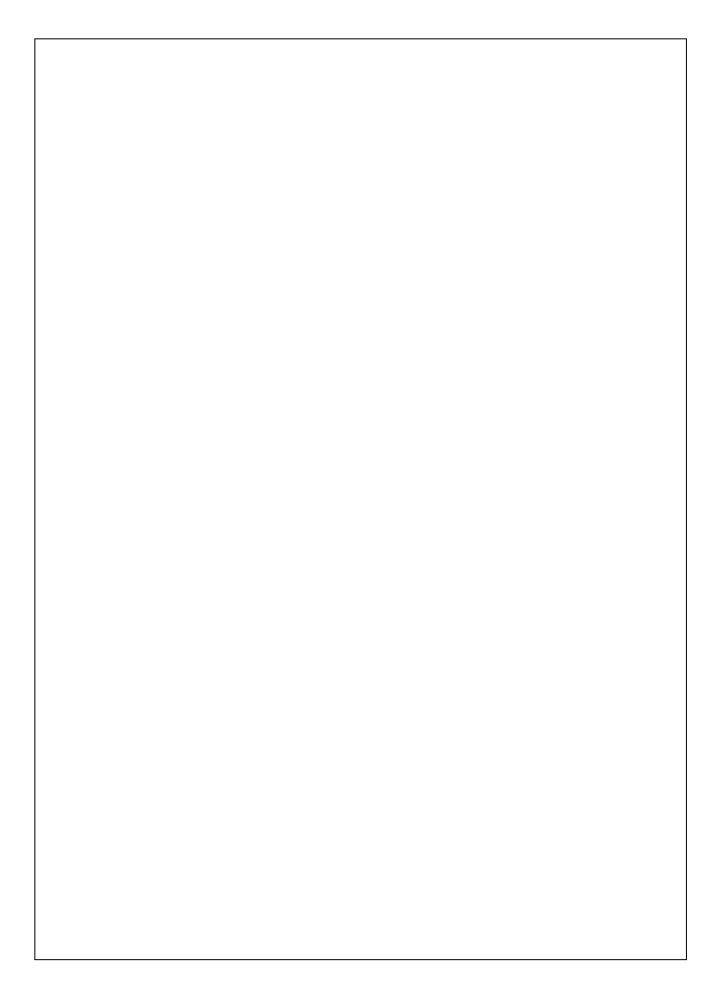
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