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SUPPLY CHAIN MANAGEMENT

**BY**

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A SUMMER INTERNSHIP PROGRAM

ON

**INTERN BRIDGE PVT.LTD**

**KLH Global Business School**

**Faculty Guide: Company Guide :**

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Abstract

This internship report details my experience at InternBridge, where I participated in the Disaster Relief Challenge. My primary responsibilities included researching various transportation methods, considering factors such as speed, capacity, and accessibility to disaster zones. I designed a warehouse layout to ensure efficient storage and distribution of supplies and developed a comprehensive plan for coordinating with relief agencies and volunteers on the ground. Additionally, I explored the importance of risk management in supply chains, emphasizing its critical role in disaster relief operations.

To enhance practical understanding, I simulated the challenge using a board game and an online platform, introducing variables such as sudden weather changes and roadblocks to test decision-making skills. This report aims to provide insights into the complexities and strategic considerations involved in disaster relief logistics, highlighting the key learnings and challenges encountered during the internship.

Introduction

This report outlines my internship experience at InternBridge, where I was tasked with the Disaster Relief Challenge. The primary objective of this challenge was to develop and implement effective strategies for managing disaster relief logistics. Throughout the internship, I focused on researching different transportation methods, considering critical factors such as speed, capacity, and accessibility to disaster zones. Additionally, I designed a warehouse layout aimed at optimizing the storage and distribution of relief supplies.

A significant aspect of my role involved creating a comprehensive plan for coordinating efforts with relief agencies and volunteers on the ground. This coordination is crucial for ensuring timely and efficient delivery of aid to affected areas. Furthermore, I delved into the importance of risk management within supply chains, particularly in the context of disaster relief operations.

To practically apply and test these strategies, I utilized simulations, incorporating elements like sudden weather changes and roadblocks to evaluate decision-making skills. This hands-on approach provided valuable insights into the complexities and dynamic nature of disaster relief logistics. This introduction sets the stage for a detailed exploration of the methodologies, challenges, and key learnings from my internship experience.

Project Description

The Disaster Relief Challenge at InternBridge involved several key tasks:

Transportation Methods: I researched various transportation options, focusing on speed, capacity, and accessibility to disaster zones to determine the most effective methods for delivering aid.

Warehouse Layout: I designed a layout for a warehouse to ensure efficient storage and distribution of supplies, maximizing space utilization and ease of access.

Coordination Plan: I developed a strategy for coordinating with relief agencies and volunteers, ensuring smooth communication and effective distribution of resources.

Risk Management: I studied the importance of risk management in supply chains, particularly in disaster scenarios, to anticipate and mitigate potential disruptions.

Simulation: To test these strategies, I used a board game and an online platform, introducing challenges like sudden weather changes and roadblocks to evaluate decision-making skills.

This project aimed to provide a comprehensive understanding of the logistics involved in disaster relief and the strategic planning required for efficient and effective operations.

Project Plan for 4 Weeks

Week 1: Research and Planning

Day 1-2: Orientation and understanding the Disaster Relief Challenge.

Day 3-5: Research transportation methods, focusing on speed, capacity, and accessibility.

Day 6-7: Begin designing the warehouse layout for efficient storage and distribution.

Week 2: Design and Development

Day 8-9: Finalize transportation methods and prepare a comparative analysis.

Day 10-12: Complete the warehouse layout design.

Day 13-14: Develop a coordination plan for working with relief agencies and volunteers.

Week 3: Risk Management and Simulation Preparation

Day 15-16: Study risk management principles in disaster relief supply chains.

Day 17-19: Integrate risk management strategies into the overall plan.

Day 20-21: Set up simulation tools (board game and online platform) and design scenarios.

Week 4: Testing and Finalization

Day 22-24: Conduct simulation runs, introducing challenges like weather changes and roadblocks.

Day 25-26: Analyze results from the simulations and refine strategies.

Day 27-28: Prepare final report and presentation.

Day 29-30: Present findings and submit the final report.

Implementation

Research Transportation Methods:

Conduct online research and review case studies on different transportation methods.

Evaluate options based on speed, capacity, and accessibility to disaster zones.

Design Warehouse Layout:

Sketch initial layout designs using software tools.

Optimize layout for efficient storage and quick distribution.

Develop Coordination Plan:

Outline roles and responsibilities for relief agencies and volunteers.

Create communication protocols and procedures.

Study Risk Management:

Research risk management strategies specific to disaster relief.

Identify potential risks and develop mitigation plans.

Set Up Simulations:

Prepare a board game and online platform for simulation.

Design scenarios with variables like weather changes and roadblocks.

Run Simulations and Refine Strategies:

Conduct simulation sessions to test decision-making.

Analyze outcomes and adjust strategies as needed.

Prepare Final Report:

Compile research findings, designs, and simulation results.

Write and submit the final report, summarizing key insights and recommendations.

Results

Transportation Methods:

Air Transport: Effective for rapid delivery of essential supplies to inaccessible areas, but limited by capacity.

Road Transport: Suitable for bulk deliveries and ongoing supply needs; however, it can be delayed by road conditions and congestion.

Warehouse Layout:

An optimized layout enhances efficiency in storage and distribution.

Key improvements included better access routes and designated zones for high-priority items.

Coordination Plan:

Clear roles and communication channels significantly improve operational efficiency.

Effective coordination between agencies and volunteers ensures smoother relief operations.

Risk Management:

Major risks such as severe weather and roadblocks can disrupt logistics.

Preparedness and contingency plans are crucial for mitigating these risks.

Simulation Insights:

Simulations highlighted the importance of flexibility and quick decision-making.

Challenges like sudden weather changes and roadblocks tested and refined strategic responses.

Overall Impact:

Implementing these strategies improves disaster response efficiency and effectiveness.

Continuous assessment and adaptation are key to successful disaster relief operations.

Conclusion

The Disaster Relief Challenge at InternBridge provided valuable insights into managing disaster logistics. By researching transportation methods, designing an efficient warehouse layout, and developing a robust coordination plan, we optimized our approach to disaster relief. Risk management strategies proved essential for addressing potential disruptions. Simulations highlighted the need for flexibility and rapid decision-making.

Overall, the project demonstrated that well-planned logistics and strategic coordination are crucial for effective disaster response. The findings and strategies developed can significantly improve the efficiency and impact of future disaster relief efforts.

Appendix

Transportation Methods Research:

Summary of transportation options evaluated.

Tables comparing speed, capacity, and accessibility.

Warehouse Layout Design:

Diagrams of the proposed warehouse layout.

Layout optimization details.

Coordination Plan:

Outline of roles and responsibilities for relief agencies and volunteers.

Communication protocol examples.

Risk Management Strategies:

List of identified risks and mitigation plans.

Risk assessment and management framework.

Simulation Details:

Description of simulation scenarios and variables.

Results and analysis from simulation runs.

Final Report:

Full text of the final report with findings and recommendations.

Additional Resources:

References and sources used during the project.

Tools and software used for simulations and design.

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