

“From Manual to Intelligent: Transforming Inventory Planning at Jazz”



By:

Huriya Amir

01-116222-012

BS Supply Chain Management

Supervisor:

Hafiza Ghosia Awan

Department of PM & SCM

Bahria Business School

Bahria University Islamabad

Spring-2026

“From Manual to Intelligent: Transforming Inventory Planning at Jazz”



By:

Huriya Amir

01-116222-012

Supervisor:

Hafiza Ghosia Awan

Department of PM & SCM

Bahria Business School

Bahria University Islamabad

Spring - 2026

Final Project Submission Form**Viva-Voce Examination**Viva Date 14/05/2026

Topic of Research: (From Manual to Intelligent:
Transforming Inventory Planning at Jazz)

Name of Student(s):**Enroll #**

- Huriya Amir

01-116222-012

Class: (BS SCM)**Approved by:**

(Hafiza Ghosia Awan)
Supervisor

Dr. Muhammad Naveed
Research Coordinator

Professor. Dr. Riaz Ahmed
Head of Department
PM & SCM

Table of Content

CHAPTER 1: INTRODUCTION	1
1.1. Introduction	1
1.2. Background of Study	2
1.3. Problem Statement	3
1.3.1. Inefficiencies due to Repetitive planning processes	3
1.3.2. Decision Inconsistency due to manual judgement	3
1.3.3. Limited Visibility into Uncertainties and trade-Offs	3
1.3.4. Explainability Gap Reducing Trust in AI	3
1.4. SMART Objectives	4
1.5. Scope and limitation of the study.....	5
1.5.1. Scope.....	5
1.5.2. Limitations	5
1.6. Justification.....	5
1.7. Budget and Resources.....	6
1.8. Project Schedule	6
1.8.1. Schedule Breakdown.....	7
1.9. Ethical Consideration	7
CHAPTER 2: LITERATURE REVIEW	9
2.1. Analysis and Comparison.....	12
CHAPTER 3: METHODOLOGY	14
3.1. Initial Phase	15
3.1.1. Operational Process Review	15
3.1.2. Stakeholder Interviews	15
3.1.3. Methods of Conducting Interviews	15
3.1.4. Baseline Assessment of Inventory Decision Practices	16
3.1.5. Thematic Analysis	16
3.2. Gap Measurement.....	16
3.2.1. Scenario Based Evaluation Design	16

3.2.2. Trust Measurement	16
3.2.3. Override Rate	17
3.2.4. Behavioral Comparison Analysis.....	17
3.3. Conceptual Framework Development Phase.....	17
3.3.1. Design of Inventory Planning Framework	17
3.3.2. Scenario Testing and Simulation	18
3.4. Key Performance Evaluation	18
3.5. Research Design	18
3.5.1. Case Study Design	19
3.6. Sample Size Justification	19
CHAPTER 4: ANALYSIS	20
4.1. Analysis of Current Inventory Planning System.....	20
4.1.1. Current Inventory Planning Workflow.....	20
4.2. Data Analysis	21
4.2.1. Analysis of Collected Data.....	21
4.3. Survey Analysis	22
4.3.1. Overview	22
4.3.2. Interpretation of Survey Results.....	23
4.4. Gap Analysis	24
4.4.1. Gap Summary	25
4.5. Data Collection Methods and Findings.....	25
4.6. Requirement Definitions and Specifications.....	26
CHAPTER 5: IMPLEMENTATION OF RESULTS	27
5.1. Effectiveness of The Tools Used for Data Analysis.....	27
5.2. Proposed Changes and Implementation of the Model.....	27
5.2.1 Proposed Framework.....	27
5.2.2 Implementation	28
5.2.2.1. Predictive Insight Layer	28
5.2.2.2. Business Rule and Context Layer	28
5.2.2.3. Trade-off and Decision Alignment Layer.....	29
5.2.2.4. Explanation and Manager Interaction Layer.....	29
5.3. Cost Benefit Analysis	30
5.3.1. Cost Benefit Comparison.....	31

5.4. Final Recommendation and Future Outlook.....	32
CHAPTER 6: LIMITATIONS, CONCLUSION, AND RECOMMENDATIONS.....	34
6.1. Limitations	34
6.2. Conclusion.....	34
6.3. Recommendations	36
References	38

LIST OF TABLES

Table 1	6
Table 2	12
Table 3	14
Table 4	16
Table 5	24
Table 6	31

LIST OF FIGURES

Figure 1	7
Figure 2	14
Figure 3	21
Figure 4	23
Figure 5	23