PROJECT PLAN
MEDIA BAZAAR

UNICART

Group: 2-5
Version: Version 1.2

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1 Project Overview

1.1 Current Situation

Backed by its parent company, Jupiter, Media Bazaar is a new hardware store with a single retail location and an associated warehouse in Eindhoven. Jupiter's administrative team is grappling
with inefficiencies in employee scheduling and inventory management. They currently rely on rudimentary Excel spreadsheets for these tasks, leading to scheduling conflicts and stock mismanagement. Multiple teams are vying to provide Jupiter with a streamlined ICT solution.

1.2 **Problem Statement**

Media Bazaar faces dual challenges:

1. Employee Scheduling: The existing Excel-based system is too difficult and prone to errors. Shift modifications are communicated via phone calls, making it hard to track changes and leading to employee dissatisfaction.
2. Inventory Management: The absence of a centralized system for inventory tracking complicates restocking procedures and increases the likelihood of data loss.

1.3 **Project Objectives**

The primary goal is to simplify Media Bazaar's operational and administrative processes. We aim to develop an ICT solution that eradicates miscommunication and inefficiencies, focusing initially on employee management and subsequently on inventory optimization.

1.4 **Constraints and Technologies**

The initial version is slated for completion within six weeks, followed by a twelve-week period for additional feature integration. To ensure timely delivery, we will prioritize features most critical to our client—employee and inventory management. The tech stack includes C#, HTML5, CSS, JavaScript, Windows Forms, ASP.NET Razor Pages, and Bootstrap.

1.5 **Client Information**

Our client is a new hardware store "Media Bazaar", funded by the "Jupiter" company. The company is represented by Henriette.

1.6 **Team Composition**

Team UniCart contains the following developers:
- Claudiu Gabriel Badea
- Nazim Ahmedov
- Danila Solovenko
- Angel Rusev

2 **Risk Assessment**

Risk	Mitigation Strategy	Probability	Impact Level

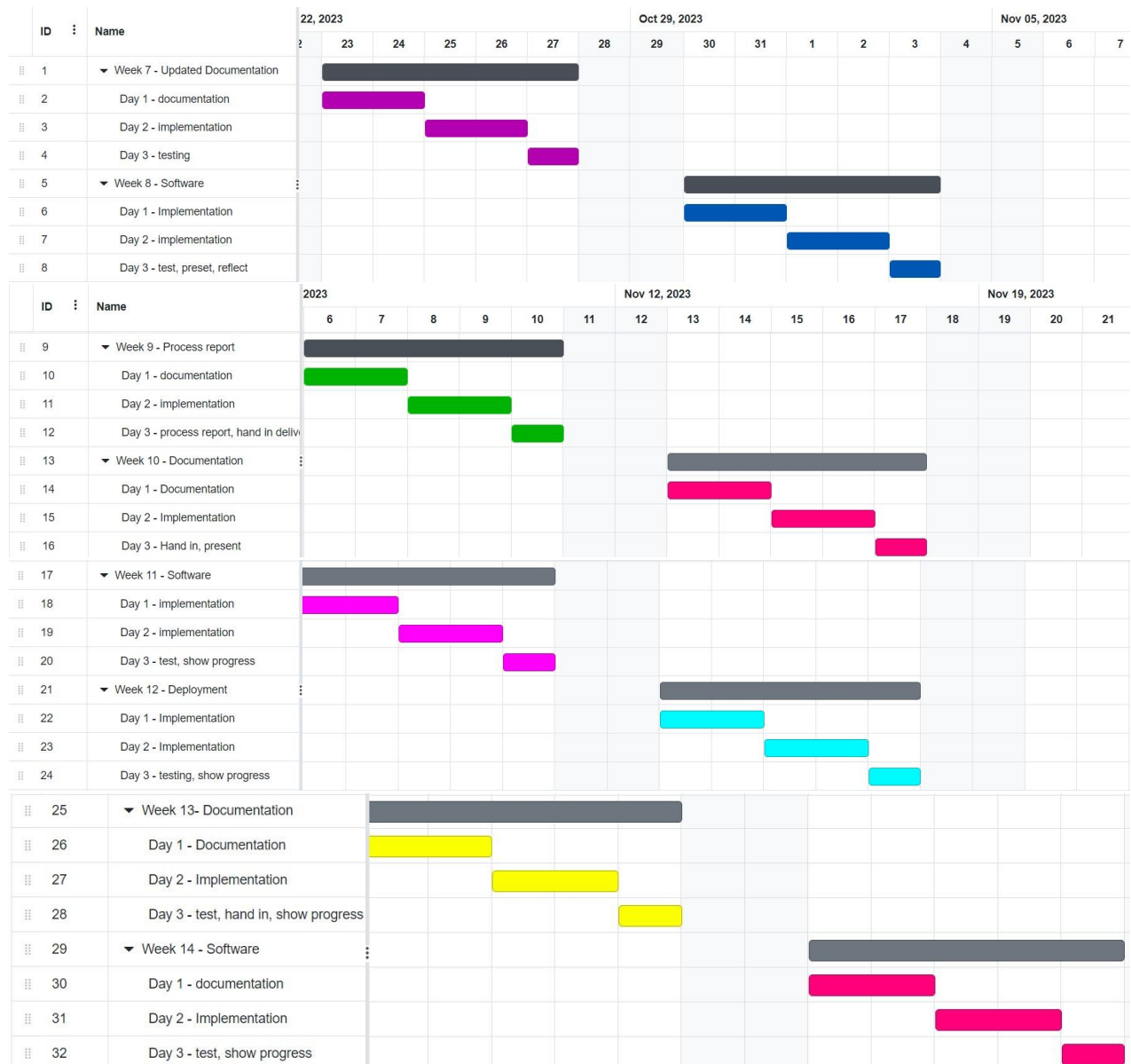|			
Ambiguity in Project Requirements	Regularly review and update a well defined project plan with client and team input.	Low	Critical
Misaligned Client Expectations	Maintain transparent communication channels with the client and provide regular updates.	Moderate	High
Team Communication Breakdown	Implement periodic status reports and regular team meetings to ensure alignment.	Low	High
Ineffective Decision-Making	Documental l decisions, ensure team consensus, and review impacts periodi cally.	Moderate	Moderate
Imbalanced Work Distri bution	Conduct skills assessment for team members and allocate tasks based on strengths and weaknesses.	Moderate	High
Delayed Skill Acquisition	Alert the educational supervisor for remedial action if learning objectives are not met on time.	Low	Moderate
Deviation from Methodology	Conduct frequent methodology audits and adjust the project plan as needed.	Moderate	High
Inconsistent Team Attendance	Contact absent team members and escalate to educational supervisors if unresponsiveness continues.	Low	High

3 **Deliverables**

- **Retail Interface**: A user-friendly shop website for Media Bazaar.
- **Authentication Portal**: A secure login page for both employees and administrators.
- **Employee Shift Dashboard**: A dedicated web page for viewing and managing employee shifts.
- **Employee Profile Manager**: A web page for employees to view and edit their personal details.
- **Inventory Dashboard**: A web page for real-time stock monitoring.
- **Restock Request Module**: A system for employees to request restocking of items.
- **Warehouse Management App**: A specialized application for warehouse operations.
- **Admin Authentication**: A secure login system for administrators.
- **Stock Management Page**: A dedicated page in the warehouse app for stock management.
- **Reorder Request Module**: A system in the warehouse app for initiating rebuy requests.
- **Admin Employee Manager**: A page for administrators to manage employee data.
- **Employee Performance Analytics**: A page for administrators to view employee statistics.
- **Centralized Database**: A robust database to store all relevant data.
- **Database**
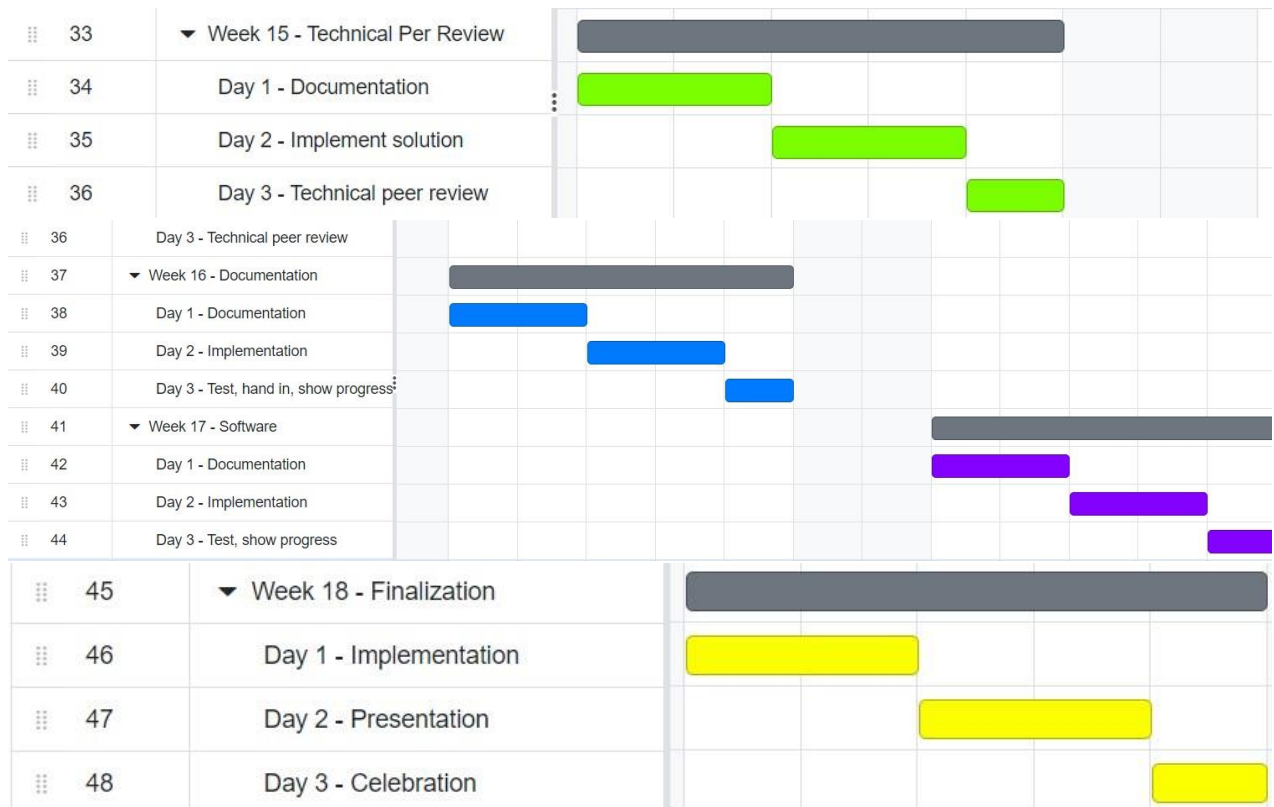- **Documentation**: Test Plan, URS, Project Plan

4 **Non-Deliverables**
- **E-commerce Features**: No online shopping functionality will be included.
- **Customer Interface**: No dedicated web page for customers.

- **Sick Leave Management:** No functionality for requesting or managing sick leave.

5 Planning

ID	Name
1	▼ Week 7 - Updated Documentation
2	Day 1 - documentation
3	Day 2 - implementation
4	Day 3 - testing
5	▼ Week 8 - Software
6	Day 1 - Implementation
7	Day 2 - implementation
8	Day 3 - test, preset, reflect
9	▼ Week 9 - Process report
10	Day 1 - documentation
11	Day 2 - implementation
12	Day 3 - process report, hand in deliv
13	▼ Week 10 - Documentation
14	Day 1 - Documentation
15	Day 2 - Implementation
16	Day 3 - Hand in, present
17	▼ Week 11 - Software
18	Day 1 - implementation
19	Day 2 - implementation
20	Day 3 - test, show progress
21	▼ Week 12 - Deployment
22	Day 1 - Implementation
23	Day 2 - Implementation
24	Day 3 - testing, show progress
25	▼ Week 13- Documentation
26	Day 1 - Documentation
27	Day 2 - Implementation
28	Day 3 - test, hand in, show progress
29	▼ Week 14 - Software
30	Day 1 - documentation
31	Day 2 - Implementation
32	Day 3 - test, show progress

	33	▼ Week 15 - Technical Per Review	
	34	Day 1 - Documentation	
	35	Day 2 - Implement solution	
	36	Day 3 - Technical peer review	
	36	Day 3 - Technical peer review	
	37	▼ Week 16 - Documentation	
	38	Day 1 - Documentation	
	39	Day 2 - Implementation	
	40	Day 3 - Test, hand in, show progress	
	41	▼ Week 17 - Software	
	42	Day 1 - Documentation	
	43	Day 2 - Implementation	
	44	Day 3 - Test, show progress	
	45	▼ Week 18 - Finalization	
	46	Day 1 - Implementation	
	47	Day 2 - Presentation	
	48	Day 3 - Celebration	

Iteration 1 Summary: UI update on Win Forms App, department functionality added, functionality for Employee form Week 7: Create/Update Documentation

Iteration 1
Day 1:
  · Create/Update documentation
  · Meet for Agile Sprint Planning with tutor
  · (Question client if needed)
Day 2:
  · Implement solution
  · Meet tutor for progress check
Day 3:
  · Implement and test solution
  · Hand in deliverables

Week 8: Software

Iteration 1
  Day 1:
   · Implement solution
   · Meet tutor for progress check
  Day 2:
   · Implement solution *Day 3:*
   · Implement and test solution
   · Hand in deliverables
   · Present current status to
  tutor
   · Reflect on the current
  iteration and prep for the next
  iteration

Week 9: Process Peer Review

Special Week
  Day 1:
   · Create/Update documentation
   · Meet for Agile Sprint Planning
  Day 2:
   · Implement solution
   · Meet tutor for progress check
  Day 3:
   · Process peer-review
   · Hand in deliverables
   · Present current status to
  tutor
   · Reflect on the current
  iteration and prep for the next
  iteration

Iteration 2 Summary: Algorithm for searching and sorting added for shifts and cancelled shifts, add shift form added, update on PRJ plan and URS, Forgot Password functionality, added time to shifts

Week 10: Updated Documentation

Iteration 2

Day 1:
- Create/Update documentation
- Meet client for progress check

Day 2:
- Implement solution
- Meet tutor for process check

Day 3:
- Implement and test solution
- Hand in deliverables
- Present current status to tutor
- Reflect on the current iteration and prep for the next iteration

Week 11: Software

Iteration 2

Day 1:
- Implement solution
- Meet client for progress check

Day 2:
- Implement solution
- Meet tutor for progress check

Day 3:
- Implement and test solution
- Hand in deliverables
- Present current status to tutor

- Reflect on the current iteration and prep for the next iteration

Week 12: Software

Deployment
  Day 1:
  - Implement solution
  - Meet tutor for progress check
  Day 2:
  - Implement solution
  - Meet client for progress check
  Day 3:
  - Implement and test solution
  - Hand in deliverables
  - Present current status to tutor
  - Reflect on the current iteration and prep for the next iteration

Iteration 3 Summary: Vacation functionality for win forms application, auto-scheduling, email notifications, salary encryption, add activity diagrams

Week 13: Updated Documentation

Iteration 3
  Day 1:
  - Create/Update documentation
  - Meet for Agile Sprint Planning
  Day 2:
  - Implement solution

- Meet tutor for progress check

Day 3:
- Implement and test solution
- Hand in deliverables
- Present current status to tutor
- Reflect on the current iteration and prep for the next iteration

Week 14: Software

Iteration 3

Day 1:
- Create/Update documentation
- Implement solution
- Meet client for progress check

Day 2:
- Implement solution
- Meet tutor for progress check

Day 3:
- Implement and test solution
- Hand in deliverables
- Present current status to tutor
- Reflect on the current iteration and prep for the next iteration

Week 15: Technical Peer Review

Special Week

Day 1:
- Create/Update documentation
- Meet for Agile Sprint Planning

Day 2:

- Implement solution
- Meet tutor for progress check

Day 3:
- Technical peer-review
- Hand in deliverables
- Present current status to tutor
- Reflect on the current iteration and prep for the next iteration

Iteration 4 Summary: Finalize delivery: update Web App UI, Password security(hashing and security check), BSN added (encrypted), small UI updates on Win Forms App

Week 16: Update Documentation

Iteration 4

Day 1:
- Create/Update documentation
- Implement solution
- Meet client for progress check

Day 2:
- Implement solution
- Meet tutor for progress check

Day 3:
- Implement and test solution
- Hand in deliverables
- Present current status to tutor
- Reflect on the current iteration and prep for the next iteration

Week 17: Software

Iteration 4

Day 1:
- · **Create/Update documentation**
- · **Implement solution**
- · **Meet client for progress check**

Day 2:
- · **Implement solution**
- · **Meet tutor for progress check**

Day 3:
- · **Implement and test solution**
- · **Hand in deliverables**
- · **Present current status to tutor**
- · **Reflect on the current iteration and prep for the next iteration**

Week 18: Git

Finalization
Day 1:
- · **Implement solution**
- · **Meet tutor for final project review** *Day 2:*
- · **Deploy system and provide binaries to the client**
- · **Present current status to stakeholder**
- · **Celebrate team achievements**