Formal Meeting 1

Meeting Date: @October 17, 2024 4:00 PM

1. Project Overview

Objective: Develop a staff scheduling tool for efficient restaurant management, enabling dynamic planning based on real-time data.

1.1 Key Requirements

- Facilitate efficient management by human planners
- Enable dynamic scheduling responses to latest data
- Planning horizon: 1 week to 1 month
- Accommodate shift durations: 2 to 12 hours

1.2 Core Features

- 1. Excel-compatible data import/export
- 2. Comprehensive summary statistics
- 3. Real-time schedule updates
- 4. Simulation of unexpected events (e.g., demand surges, employee tardiness)
- 5. User-friendly interface for restaurant managers

2. Scheduling Process

▼ Stage 1: Demand Modeling

Determine worker requirements (number of workers) across different time slots within the planning horizon.

▼ Stage 2: Shift Designing

Create shift sets and calculate required workers to meet modeled demand.

▼ Stage 3: Shift Assignment

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Allocate workers to individual shifts while satisfying demand and constraints.

3. Project Timeline (PROVISIONAL)

Phase	Duration	Key Activities
Planning & Analysis	Oct 13 - Nov 9, 2024	Scope definition, requirement gathering
Design	Nov 10 - Nov 30, 2024	System architecture, UI design, technology selection
Initial Implementation	Dec 1 - Dec 21, 2024	Core functionality development
Continued Implementation	Dec 22, 2024 - Jan 11, 2025	Feature development, code reviews
Testing	Jan 12 - Feb 1, 2025	Comprehensive testing phase
Refinement	Feb 2 - Feb 22, 2025	Issue resolution, performance optimization
Final Implementation	Feb 23 - Mar 15, 2025	Final changes, deployment preparation
Deployment Preparation	Mar 16 - Mar 29, 2025	Final testing, environment setup
Deployment & Submission	Mar 30 - Apr 12, 2025	Software deployment, final reports
Project Showcase	Apr 13 - Apr 19, 2025	Open Day, presentations

4. Key Deliverables

- Equipment requests (from Oct 16, 2024)
- Completed Ethics forms (Oct 21, 2024)
- Group project site (Oct 31, 2024)
- Interim reports (Dec 5, 2024, TBC)
- Team final reports and software (Apr 2, 2025, TBC)
- Software Demonstration recording (Apr 9, 2025, TBC)
- Team Presentation recording (Apr 9, 2025, TBC)
- Team promotional digital artifact (Apr 9, 2025, TBC)

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- Open Day participation (Apr 16, 2025, TBC)
- Individual final reports (Apr 22, 2025)

Note: This project plan is subject to adjustments based which methodology we want to follow and potential changes to key dates.

5. Ethics Form

Please refer to the attached ethics form for detailed information:

6. Work 🙂

6.1 (ALL) Understanding The Team (Around 30 minutes)

Complete this:

http://www.humanmetrics.com/cgi-win/jtypes2.asp

Using the graph below as reference, choose one team role that aligns with you the most.

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Team Role	Contribution	Allowable Weaknesses Ignores incidentals. Too preoccupied to communicate effectively.
Plant	Creative, imaginative, free-thinking. Generates ideas and solves difficult problems.	
Resource Investigator	Outgoing, enthusiastic, communicative. Explores opportunities and develops contacts.	Over-optimistic. Loses interes once initial enthusiasm has passed.
Co-ordinator	Mature, confident, identifies talent. Clarifies goals. Delegates effectively.	Can be seen as manipulative Offloads own share of the work.
Shaper	Challenging, dynamic, thrives on pressure. Has the drive and courage to overcome obstacles.	Prone to provocation. Offends peoples feelings.
Monitor Evaluator	Sober, strategic and discerning. Sees all options and judges accurately.	Lacks drive and ability to inspire others. Can be overly critical.
Teamworker	Co-operative, perceptive and diplomatic. Listens and averts friction.	Indecisive in crunch situations Avoids confrontation.
Implementer	Practical, reliable, efficient. Turns ideas into actions and organises work that needs to be done.	Somewhat inflexible. Slow to respond to new possibilities.
Completer	Painstaking, conscientious, anxious. Searches out errors. Polishes and perfects.	Inclined to worry unduly. Reluctant to delegate.
Specialist	Single-minded, self-starting, dedicated. Provides knowledge and skills in rare supply.	Contributes only on a narrow front. Dwells on technicalities



Due: 19th October 2024

Assignment of roles will be in our next informal meeting, 21st October. The guide given from lecture will be used as reference for assigning roles. These roles aren't finalized.

6.2 (ALL) Methodologies (2-3 days)

- Kanban Minghe XU & Aijia YU
- Scrum Jey Vi TAN & Lik Wei CHAN
- Waterfall Ziyu JIA & Peifeng LIU

Each group research that methodology and their suitability for our project. Produce a brief overview of the methodology and highlight the pros and cons for our specific project.

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Due: 21st October 2024

During our informal meeting on 21st October we will have a group discussion. We will then make a collective decision on the methodology to adopt.

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