

Smart Waitlist System for Enhancing iZone Subject Enrolment



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1 INTRODUCTION & BACKGROUND

Subject enrollment is overwhelming and competitive, but iZone lacks smart features to ease the process.

PROBLEM STATEMENT

Students repeatedly log in to check for slots due to lack of real-time updates, causing frustration and inefficiency.

6 DESIGN, PROCESS & ITERATION

Waterfall Methodology

Gathering Stakeholder Requirements

Identified enrollment issues and gathered user needs to define key features.

Design

Designed system flow with UML diagrams and developed user interface prototype.

Implementation

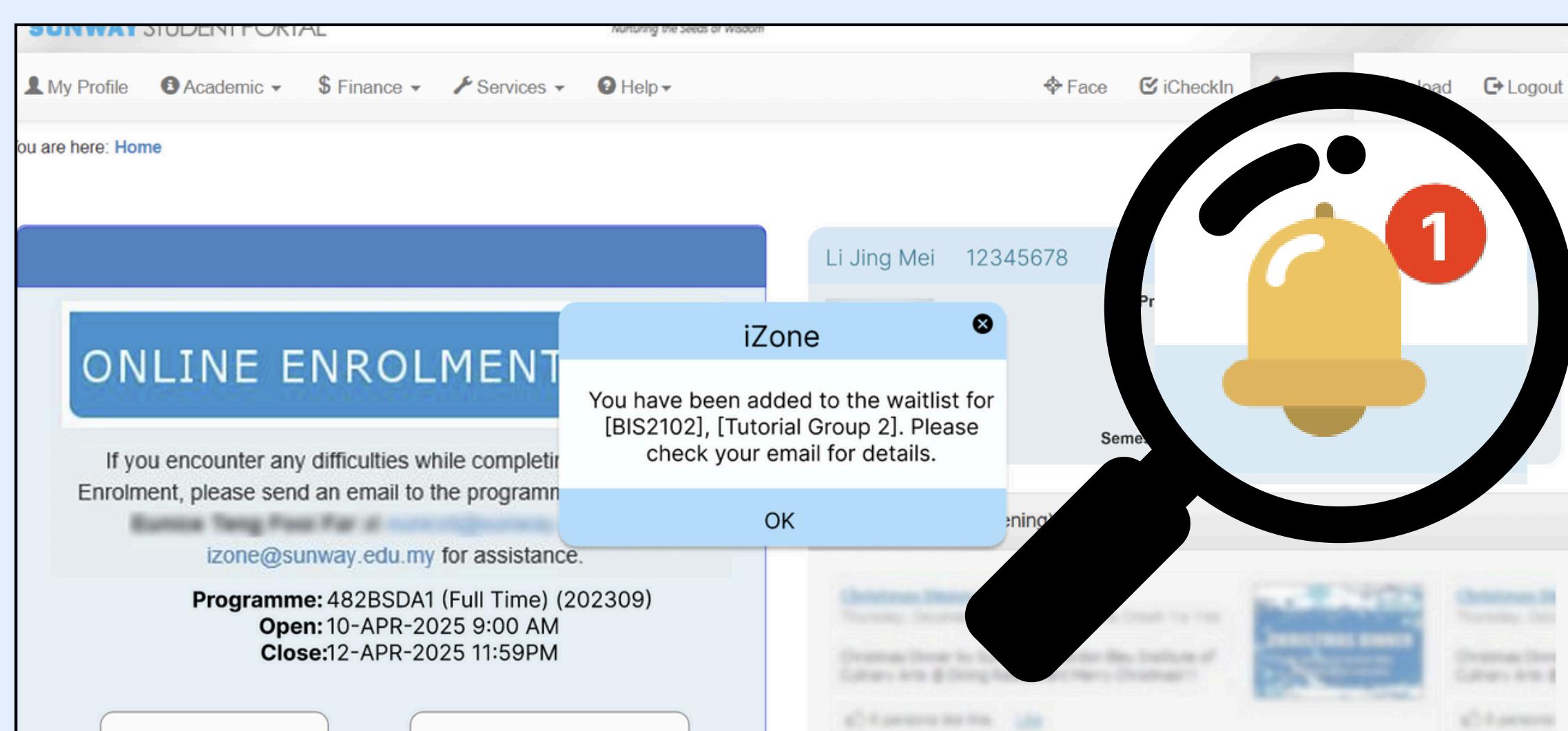
Developed the frontend and backend of the system and integrated iZone real-time notifications.

Testing

Ran pilot and usability tests to validate performance and gather feedback for improvement.

| DAY | TIME | ROOM |
|--|-------------------------------|--------|
| Group 1: Dr. Aslina (Temporarily Full) | Join Waitlist | |
| MON | 13:00:00 - 15:00:00 | UC-3-6 |
| WED | 08:00:00 - 10:00:00 | UC-3-6 |
| Group 2: Mr. Shawn (Temporarily Full) | Join Waitlist | |
| MON | 15:00:00 - 17:00:00 | UC-3-6 |
| WED | 10:00:00 - 12:00:00 | UC-3-6 |

| LIVE DASHBOARD | | | | | | |
|----------------|------------|--------------|------------------------|----------|-------|--|
| No | Student ID | Subject Code | Subject Name | Type | Group | Time Slot |
| 1 | 12345678 | PMTH003 | STATISTICAL TECHNIQUES | Tutorial | 2 | Mon 15:00 - 17:00 Wed 10:00 - 12:00 |
| 2 | 22000123 | PMTH003 | STATISTICAL TECHNIQUES | Tutorial | 2 | Mon 15:00 - 17:00 Wed 10:00 - 12:00 |
| 3 | 22000456 | PMTH003 | STATISTICAL TECHNIQUES | Tutorial | 2 | Mon 15:00 - 17:00 Wed 10:00 - 12:00 |



8 CONCLUSION

Based on the SUS usability test, the system received a **score of 80.75** indicating **excellent usability**. This reflects our system's strong performance in **effectiveness, efficiency** and user **satisfaction**.

3 OBJECTIVE

- Identify system requirements to understand user and business needs
- Design effective system solutions that align with the identified requirements
- Conduct system testing to ensure functionality, accuracy, and reliability.

4 VALUE PROPOSITION

Enables students to join a waitlist and get auto-enrolled with real-time updates, eliminating manual checking.

5 BENEFITS

Users (Students)



- Higher chance to join classes
- Save time & reduce stress
- Clear & real-time updates

Society (University & Education System)



- Reduce admin workload
- Better class management
- Fewer complaints, more public trust

7 COMMERCIALIZATION POTENTIAL

Who Can Use the System?

- Universities and colleges
- Private learning centers
- Training providers with limited seats



Industry Benefits

- Lower support costs
- Improved user experience
- Scalable across institutions

