ReserveWell
Third Iteration Plan

Version History Table

Version	Date	Description
v1.0	22.11.2023	-
v1.1	2.11.2023	Worklist Items List is revised.
V1.2	15.12.2023	Assessment parts are rewritten according to finished work item list.

1. Key milestones

Milestone	Date
Iteration starts	2/12/2023
Develop the application to include other use cases which are register, display reservations, edit working hours, edit capacity.	10/12/2023
Expand the database in order to test application more effectively	12/12/2023
Test the performance and scalability of the application	15/12/2023
Revise work list	16/12/2023
Get feedback from other teams	18/12/2023
Evaluate other teams	18/12/2023
Iteration stops	16/12/2023

2. High-level objectives

- **Implement User Registration Functionality**

Develop and integrate the user registration feature to allow Waitstaff, restaurant manager and diner to create accounts with their email, enabling personalized access to the application.

- **Display Reservations**

Enable the application to display reservations in a user-friendly format, providing Waitstaff and Restaurant Manager with a clear overview of upcoming reservations, including details like date, time, and customer information.

- **Implement Working Hours and Capacity Editing**

Develop functionality to allow Restaurant Manager to edit and update the working hours of the restaurant, ensuring accurate representation of the restaurant's availability for reservations.

Integrate the capability for Restaurant Manager to adjust and manage the restaurant's capacity, providing flexibility to accommodate changes in seating arrangements and optimize the dining experience.

- **Expand Database for Comprehensive Testing**

Increase the scope and scale of the database to include a diverse set of test scenarios, reservations, and user profiles. This expansion will enable thorough testing of the application's performance, scalability, and robustness under varying conditions. Additionally, it will facilitate the identification of potential issues related to data handling and storage, ensuring the application is well-prepared for real-world usage.

- **Optimize Performance and Scalability**

Conduct performance testing to optimize the application's speed and responsiveness. Ensure scalability to accommodate increased user activity and data volume.

3. Work Item assignments

Name / Description	Priority	Size estimate (Points)	State	Target Iteration	Assigned to	Hours Worked	Estimate of hours remaining	Reference Material
Define an initial high-level system architecture	2	3	Closed	3	Umut	8	8	<Architecture Notebook.pdf>
Define objects, attrbiutes, methods	3		Closed	3	Umut	5	5	<Design.pdf>, <Architecture Notebook.pdf>
Support basic registering process for diners	2	5	Closed	3	Team	0	20	
Prototype UI	2		Closed	3	Team	0	3	
Do the design	2		Closed	3	Team	0	5	<Design.pdf>
Implement	2		Closed	3	Team	0	3	
Test	2		Closed	3	Team	0	3	
Verify data flow	2		Closed	3	Team	0	3	
Draw sequence diagram to be included in Design Document	2		Closed	3	Team	0	3	<Design.pdf>
Support basic registering	2	5	Closed	3	Team	0	20	

process for restaurant staff								
Prototype UI	2		Closed	3	Team	0	3	
Do the design	2		Closed	3	Team	0	5	<Design.pdf>
Implement	2		Closed	3	Team	0	3	
Test	2		Closed	3	Team	0	3	
Verify data flow	2		Closed	3	Team	0	3	
Draw sequence diagram to be included in Design Document	2		Closed	3	Team	0	3	<Design.pdf>
Support restaurant capacity customizations	2	5	Closed	3	Team	0	22	
Prototype UI	2		Closed	3	Team	0	3	
Do the design	2		Closed	3	Team	0	5	<Design.pdf>
Implement	2		Closed	3	Team	0	3	
Test	2		Closed	3	Team	0	3	
Verify data flow	2		Closed	3	Team	0	5	
Draw sequence diagram to be included in Design Document	2		Closed	3	Team	0	3	<Design.pdf>
Support restaurant workhours customizations	2	5	Closed	3	Team	0	22	
Prototype UI	2		Closed	3	Team	0	3	
Do the design	2		Closed	3	Team	0	5	<Design.pdf>
Implement	2		Closed	3	Team	0	3	
Test	2		Closed	3	Team	0	3	
Verify data flow	2		Closed	3	Team	0	5	
Draw sequence diagram to be included in Design Document	2		Closed	3	Team	0	3	<Design.pdf>
Define design artifact	2		Closed	3				
Define Iteration Plan 3	2		Closed	3	Ezgi E.	0	6	<IterationPlan3.pdf>
Design interface	2		Closed	3		8	8	
Define data base and entity relationships	2		Closed	3		8	8	<Design.pdf>

4. Issues

Issue	Status	Notes
Load Testing Scenarios	Open	Identify and simulate realistic load testing scenarios to evaluate how the application performs under various levels of user activity and data volume.
Error Handling under Load	Open	Test and address how the system handles errors, timeouts, or degraded performance during peak loads to maintain stability.
Any additional features needed for the core reservation system	Closed	In the detailed design phase, the need for additional features have not raised.

5. Evaluation criteria

- Completeness and relevance of identified use cases, and alignment of use cases with project scope and objectives.

- Walkthrough of iteration build with Quality Teams received favorable response.

- Minimum 85% of the opinions against the interface design should be positive.

- Completeness and accuracy of project documentation.

- Fulfilling the functions of the application with newly added features.

- System performance under various load scenarios, identification of performance bottlenecks, and responsiveness during peak loads.

- Effectiveness in handling errors during peak loads, user experience in error situations, and system stability under stress conditions.

- Timeliness of updates, consistency in displaying real-time data, and user experience in accessing reservation information.

6. Assessment

Assessment target	Third Iteration
Assessment date	18/12/2023
Participants	Development Team, Quality Team
Project status	Green

- **Assessment against objectives**

Implement User Registration Functionality

This objective aims to enhance user engagement by introducing a user registration feature. The successful implementation of this functionality would contribute to a more personalized user experience. That is why in this iteration, the objective has been developed.

Display Reservations

The objective to implement the reservation display feature has been successfully achieved within this iteration. Users and restaurant managers can now enjoy the benefits of a clear, accessible overview of upcoming reservations, surpassing the initial goal set for this development cycle.

Implement Working Hours and Capacity Editing

The implementation of working hours and capacity editing stands as a significant success for this iteration. Our aim was to provide restaurant managers with dynamic tools for operational adaptability, and this objective has been met with success.

Expand Database for Comprehensive Testing

The proactive decision to expand the database for comprehensive testing has proven invaluable during this iteration. We set out to ensure the application's robustness, and the thorough testing facilitated by the extended database has successfully identified and addressed potential issues.

Optimize Performance and Scalability

The completion of performance testing and optimization efforts is a key accomplishment for this iteration. Our goal was to enhance the application's speed and scalability. It is decided that the enhancements will be realized after all of the features added to the application. It is planned to be done in next iteration.

- **Work Items: Planned compared to actually completed**

  Except "Collaborate with restaurants to integrate the system with existing systems", and "Support basic managing reservations process", all work items list has been completed. The unfinished work items are planned to be completed in the next iteration.

- **Assessment against Evaluation Criteria Test results**

- Documentation quality is satisfactory, offering clear information for developers.

-Since the test results are successful and the database updates itself accurately in real-time, it can be concluded that database relationships are correct.

-In this iteration registration for both restaurant managers and users, displaying reservations and editing working hours functions are added to the application.

-Since the quality teams have not evaluate our interface yet, it cannot be known whether favorable responses will be observed or not.

-The application successfully passed the most of the prepared test scenarios. TC-02 and 07 failed while testing. Detailed information can be seen from Test Cases and Test Logs.

-The application has successfully updates database after the transactions in real-time.

- **Other concerns and deviations**
  -Unforeseen technical challenges or roadblocks.
  -Ensuring thorough testing and quality assurance within the time frame.
  -It is concerned that integrity will not be achieved if each team member performs a task.