

Beverage Booker	
Iteration Plan 3	Date: 26/04/20

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1. Key milestones

Milestone	Date
Iteration start	14/04/20
Domain host purchased and test web server and database working with test android app	24/04/20
Project documentation updated	26/04/20
Iteration stop	26/04/20

2. High-level objectives

- Mitigate highest project risk - decide on database implementation and get a test version up and running
Outcome: Test implementation of working database in the cloud
- Complete class and sequence diagrams for assigned use cases
Outcome: Class and sequence diagrams of all use-cases are completed
- Complete mockups of UI elements that will be present in the implemented system
Outcome: Mockups for UI elements completed
- Implement Browse Menu use-case
Outcome: All classes for Browse Menu use-case successfully implemented
- Implement Login use-case
Outcome: All classes for Login use-case successfully implemented.
- Carry out testing on the implemented classes that support Browse Menu and Login
Outcome: Implemented classes successfully tested using unit testing and integration testing
- Update any outstanding project documentation
Outcome: Project documents are up to date and current for the end of iteration

3. Work Item assignments

The following Work Items will be addressed in this iteration:

Work Item ID	Name or key words of description	Outcome	State	Assigned to (name)	Estimated Hours	Hours worked	Estimate of hours remaining
1.0	Mitigate highest project risk - get a test version of database up and running	Test app communicates with hosted MySQL database and can add new users	Complete	Benn	26	28.5	0
1.1	Create a basic Firebase database implementation with Create Account and Sign-In/Out features	Test implementation of Firebase database working along with features in separate test project.	Complete	Benn	4	4	0
1.2	Assess Firebase database suitability for project	Completed Firestore tutorial and reported findings.	Complete	Benn	4	4	0

Beverage Booker	
Iteration Plan 3	Date: 26/04/20

1.3	Look into Amazon Web Services (AWS) as a possible host for our server and database	Researched AWS free tier options and a Virtual Private Cloud (VPC) to host our web server and database.	Complete	Benn	4	4	0
1.4	Implement test web server and database in VPC on Amazon Web Services	Test implementation of EC2 (web server) and a MySQL database contained in VPC. Reported findings.	Complete	Benn	4	4	0
1.51 1.52 1.53	Follow tutorial and implement an application that uses PHP/Slim framework to connect to a MySQL database	Slim framework and PHP files implemented for Create, Read, Update and Delete (CRUD) functions. Overall better understanding of PHP for the project.	Complete	Benn	4	4	0
1.6	Implement test Android app that uses the PHP files to communicate with the database	Main Activity interface and Retrofit working together to allow a user to Sign up through the app. Connecting to a local mySQL database at present.	Complete	Benn	4	5	0
1.7	Research possible domains to host web server and database	A list of possible domain hosts has been compiled for the team	Complete	Benn	1	1	0
1.8	Add test PHP framework to our domain along with test database	Test app now connects to domain web server and when a new user is entered they are added to the hosted MySQL database	Complete	Benn	1	2.5	0
2.0	Complete Diagrams	Some class diagrams completed for use-cases but many remain incomplete	Incomplete	All	51	4.5	46.5
2.1	Complete diagrams for Customer - Book a table	Not completed.	Incomplete	Benn	3	0	3
2.2	Complete diagrams for Customer - Book an event	Not completed.	Incomplete	Benn	3	0	3
2.3	Complete diagrams for Customer - Create an account	Class diagram completed but none of the remaining diagrams.	Incomplete	Benn	3	1	2
2.4	Complete diagrams for Customer - Sign in	Not completed.	Incomplete	Benn	3	0	3
2.5	Complete diagrams for Customer - Empty cart	Not completed.	Incomplete	Emily	3	0	3
2.6	Complete diagrams for Customer - Fill cart	Not completed.	Incomplete	Emily	3	0	3

Beverage Booker	
Iteration Plan 3	Date: 26/04/20

2.7	Complete diagrams for Customer - Place an Order	Not completed.	Incomplete	Emily	3	0	3
2.8	Complete diagrams for Customer - Search menu	Not completed.	Incomplete	Emily	3	0	3
2.9	Complete diagrams for Manager - Add menu item	Class diagram completed but none of the remaining diagrams.	Incomplete	Jacob	3	0.5	2.5
2.10	Complete diagrams for Manager - Delete menu item	Class diagram completed but none of the remaining diagrams.	Incomplete	Jacob	3	0.5	2.5
2.11	Complete diagrams for Manager - Edit menu item	Class diagram completed but none of the remaining diagrams.	Incomplete	Jacob	3	0.5	2.5
2.12	Complete diagrams for Manager - Delete an Event	Not completed.	Incomplete	Jacob	3	0	3
2.13	Complete diagrams for Manager - Edit an event	Not completed.	Incomplete	Jacob	3	0	3
2.14	Complete diagrams for Staff - Delete table booking	Class diagram completed but none of the remaining diagrams.	Incomplete	Jake	3	0.5	2.5
2.15	Complete diagrams for Staff - Fill order	Class diagram completed but none of the remaining diagrams.	Incomplete	Jake	3	0.5	2.5
2.16	Complete diagrams for Staff - Search table booking	Class diagram completed but none of the remaining diagrams.	Incomplete	Jake	3	0.5	2.5
2.17	Complete diagrams for Staff - View active order	Class diagram completed but none of the remaining diagrams.	Incomplete	Jake	3	0.5	2.5
3.0	Mockups	All mockups completed barring the mockup for the Menu screen	Incomplete	Multi	0.75	0.50	0.25
3.1	Mockup of Login Screen	A completed mockup of the Login screen has been created	Complete	Emily	0.25	0.25	0
3.2	Mockup of sign up screen	A completed mockup of the Sign Up screen has been created	Complete	Emily	0.25	0.25	0
3.3	Mockup of Main Menu Screen	A completed mockup of the Main Menu screen has been created	Complete	Benn	0.25	0.25	0
3.4	Mockup of Menu Screen	Not completed.	Incomplete	Jake	0.25	0	0.25
4.0	Implement Browse Menu	Implementation of Browse Menu was not completed	Incomplete	Benn	3	0	3

Beverage Booker	
Iteration Plan 3	Date: 26/04/20

4.1	Classes to support Browse Menu Use-Case implemented in Android Studios	Not completed.	Incomplete	Benn	3	0	3
5.0	Implement Log In	Implementation of Login was not completed	Incomplete	Jacob	3	0	3
5.1	Classes to support Log In Use-Case implemented in Android Studios	Not completed.	Incomplete	Jacob	3	0	3
6.0	Carry out testing on the implemented classes that support Browse Menu & Log In	None of the testing tasks were completed	Incomplete	Multi	12	0	12
6.1	Carry out unit testing for Browse Menu	Not completed.	Incomplete	Emily	3	0	3
6.2	Carry out integration testing for Browse Menu	Not completed.	Incomplete	Emily	3	0	3
6.3	Carry out unit testing for LogIn	Not completed.	Incomplete	Jake	3	0	3
6.4	Carry out integration testing for Log In	Not completed.	Incomplete	Jake	3	0	3
7.0	Update any project documentation	All relevant documentation updated for the project	Complete	Multi	3.5	3.25	0
7.1	Update Project Plan to reflect changes to priorities	Project plan has been updated as of 26/04	Complete	Benn	0.5	0.5	0
7.2	Update Use-Cases with priority list reflecting project plan. Add sub use-cases into larger main use-cases.	Use-case priority list and larger main use-cases added to the Use-Case document	Complete	Benn	1	0.75	0
7.3	Create a revision document for testing types used for this project	Created a document that linked some resources and grouped together some info on types of testing procedures and standards that can be used for this project	Complete	Emily	2	2	0

Beverage Booker	
Iteration Plan 3	Date: 26/04/20

4. Issues

Issue	Status	Notes
Many tasks in this iteration were not completed	Pending	This issue was raised and discussed at the end of the iteration meeting on 26/4. There were issues completing tasks due to study loads and other assignments due, as well as work commitments outside of university. The iteration jobs that remain incomplete are going to be reassessed and carry over into the next iteration. We may however prioritise completing the diagrams for each use-case as they are needed before we implement. This way there won't be a large burden of diagrams to complete at once and will allow us to move forward quickly with our implementation.
There were issues with communication among team members	Pending	There was also an issue of communication raised at the team meeting on 26/4. The team discussed how moving forward there needs to be better communication between team members between each weekly voice meeting and during the iteration as a whole. Team members have committed to address this going forward and to keep each other informed, especially with critical matters such as the status of assigned work items.

5. Assessment

Assessment target	To complete all assigned jobs by the end of the iteration.
Assessment date	26/4/20
Participants	Benn Curby, Emily Carter, Jake Durnford, Jacob Kennedy
Project status	Yellow - Red

- Assessment against objectives**

Objective	Status
Mitigate highest project risk - decide on database implementation and get a test version up and running	Complete - A host domain was purchased for the team through a host called iPage. A test database was implemented on the host, and our test PHP framework was also pushed up to the domain. A

Beverage Booker	
Iteration Plan 3	Date: 26/04/20

	test Android app was then able to create a user, and that user was registered in our test database on the host.
Complete class and sequence diagrams for assigned use cases	Incomplete - Class diagrams were completed for some of the assigned use-cases but the majority of diagrams remained incomplete. These will be addressed over the coming iterations but will be prioritised in line with our use-case priority list and how we plan to implement. In other words we will be completing the diagrams as needed so the project does not drift any further off track and we can press ahead with implementation and testing.
Complete mockups of UI elements that will be present in the implemented system	Incomplete - All were completed barring the mockup of the Menu Screen.
Implement Browse Menu use-case	Incomplete - Browse Menu was not implemented as the team did not make enough progress this iteration to begin implementation. This will be carried over to the next iteration and made a priority task.
Implement Login use-case	Incomplete - Login was not implemented as the team did not make enough progress this iteration to begin implementation. This will be carried over to the next iteration and made a priority task.
Carry out testing on the implemented classes that support Browse Menu and Login	Incomplete - Testing was also not able to be carried out as we did not make enough progress to begin implementation. This will be carried over to the next iteration and made a priority task.
Update any project documentation	Complete - All documentation tasks have been updated to reflect any changes in the project.

6. Risk Mitigation

Risk	Status
A web server hosted database could be difficult to implement as the team have no experience in this area	Mitigated - The team decided to go with a MySQL database as we all have experience using SQL. A domain was purchased and we have a test database connecting to an Android app via a PHP framework on the web server.

Beverage Booker	
Iteration Plan 3	Date: 26/04/20

The team has little experience using the PHP language (apart from the Competency Demo)	Ongoing - During the implementation of the test PHP framework more insight was gained into how PHP works, and associated frameworks that we might use - such as Slim 3. This is, however, still an ongoing risk.
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