

Beverage Booker	
Iteration Plan 5	Date: 24/05/20

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1. Key milestones

Milestone	Date
Iteration start	11/05/20
Fill Cart implemented	20/05/20
Fill Cart Testing	22/05/20
Iteration stop	24/05/20

2. High-level objectives

1. Research how to implement the Fill Cart use-case
Outcome: A clear understanding of how to implement the cart system for the Android Customer app
2. Implement the Fill Cart use-case for the Android Customer app
Outcome: A working cart system for the Android Customer app
3. Conduct Unit Test, Integration Test and Static Review on the Fill Cart implementation
Outcome: A Unit Test, Integration Test and Static Review has been carried out on the Fill Cart implementation and it is ready to merge
4. Research how to implement the Place Order use-case
Outcome: A clear understanding of how to implement placing an order within the Android Customer app
5. Implement the Place Order use-case for the Android Customer app
Outcome: A functional checkout system for the Android Customer app
6. Conduct Unit Test, Integration Test and Static Review on the Place Order implementation
Outcome: A Unit Test, Integration Test and Static Review has been carried out on the Place Order implementation and it is ready to merge
7. Research how to implement the View Active Order use-case
Outcome: A clear understanding of how to implement viewing an order within the Android Cafe Staff app
8. Implement the View Active Order use-case for the Android Cafe Staff app
Outcome: A functional View Active Order system for the Android Cafe Staff app
9. Conduct Integration Test and Static Review on the View Active Order implementation
Outcome: A Unit Test, Integration Test and Static Review has been carried out on the View Active Order implementation and it is ready to merge
10. Conduct Unit Tests and Integration Tests on the Create User and Login implementations
Outcome: A Unit Test and Integration Test has been carried out on the Create User and Login implementations
11. Conduct Testing Revision/Research for the upcoming testing tasks
Outcome: Revise how to use JUnit and Mockito for upcoming testing tasks

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12. Conduct any other needed research or risk-mitigation tasks relating to the project
Outcome: Better understanding of tasks that lay ahead in the project and a reduction in overall risk.
13. Complete outstanding class diagrams from previous iteration
Outcome: Outstanding class diagrams for Browse Menu, Fill Cart and Place Order will be completed.

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	Research how to implement the Fill Cart use-case	A good overview of different solutions for the Fill Cart use-case implementation.	Complete	Benn	16	16	0
1.1	Conduct research into how we will implement the Fill Cart use-case within Android Studio	Greater understanding of the Fill Cart implementation as well as Browse Menu and how RecyclerView and Shared Preferences work.	Complete	Benn	4	4	0
1.2	Conduct research into how to use PHP/ PHP sessions for saving user cart	More of a grasp of how PHP and PHP sessions could be used to implement the cart for the app.	Complete	Benn	4	4	0
1.3	Conduct research into how to use MySQL database to store the user cart	A clearer understanding of how to use the MySQL database to store the users cart.	Complete	Benn	4	4	0
1.4	Conduct research into how to implement the Cart screen of the app using RecyclerView	Good understanding of how to implement RecyclerView and its adapter class in Android Studio.	Complete	Benn	4	4	0
2.0	Implement the Fill Cart use-case for the Android Customer app	Fill Cart use-case has been successfully implemented in the app, using MySQL database table to store cart contents.	Complete	Benn	16	10	0
2.1	Begin Implementing the Fill Cart use-case within the Android Studio project	Cart items displaying in the cart arraylist. Onclick listener in RecyclerView. Tried to use Shared Preferences to save cart ArrayList but had difficulty implementing this correctly.	Complete	Benn	4	2	0

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2.21 2.22	Implement the Fill Cart use case using the MySQL database to store users cart	Items that are added to the cart are now stored in the MySQL database 'cart' table.	Complete	Benn	4	3	0
2.3	Implement Recyclerview and adapter class to display the contents of the cart to the user	Recyclerview and adapter were implemented and the user can now see the items displayed in the cart UI.	Complete	Benn	4	2	0
2.41 2.42	Implement method to display the cart total and fix getCartItems method so cart contents are displayed by logged in user	Cart total is now displayed in the cart. getCartItems has been fixed to display cart items by logged in userID. isCartItemExist method checks the item is not added to cart twice. isCartActive checks the user has an active cart with cart items.	Complete	Benn	4	3	0
3.0	Conduct Unit Test, Integration Test and Static Review on the Fill Cart implementation	Testing was successfully carried out on FillCart use-case and where it was not was explained in a provided document.	Complete	Jacob	6.5	7.5	0
3.1	Conduct Unit Testing on the Fill Cart implementation	Unit testing was not carried out on the FillCart use-case but reasons as to why were provided within the attached document (3.1).	Complete	Jacob	3	2	0
3.21 3.22	Conduct Integration Testing on the Fill Cart implementation	Integration was thoroughly carried out to accomodate for the FillCart use-case.	Complete	Jacob	3	5	0
3.31 3.32	Conduct a Static Review on the Fill Cart implementation	A static review of the code was carried out using the pull request component of GitHub where code was analysed.	Complete	Jacob	0.5	0.5	0
4.0	Research how to implement the Place Order use-case	A solution has been found for how to implement the Place Order use-case	Complete	Jake	4	6	0
4.1	Conduct research into how we will implement the Place Order use-case using Android Studio	Looking at the code that has already been implemented and some ideas of my own I have a plan of how I can implement the use case.	Complete	Jake	4	6	0
5.0	Implement the Place Order use-case for the Android Customer app	Didn't complete task	Incomplete	Jake	4	0	4
5.1	Implement the Place Order use-case within the Android Studio project	Didn't complete task	Incomplete	Jake	4	0	4

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6.0	Conduct Unit Test, Integration Test and Static Review on the Place Order implementation	Task unable to be completed.	Incomplete	Jacob	6.5	0	6.5
6.1	Conduct Unit Testing on the Fill Cart implementation	Task unable to be completed.	Incomplete	Jacob	3	0	3
6.2	Conduct Integration Testing on the Fill Cart implementation	Task unable to be completed.	Incomplete	Jacob	3	0	3
6.3	Conduct a Static Review on the Fill Cart implementation	Task unable to be completed.	Incomplete	Jacob	0.5	0	0.5
7.0	Research how to implement the View Active Order use-case	Research has been completed and now different implementation methods are being tried to complete the use-case.	Complete	Multi	4	3.5	4
7.1	Conduct research into how we will implement the View Active Order use-case within Android Studio	A few different possibilities have been trialed, however there has not been an overall solution found yet	Complete	Emily	3	3	0
7.2	Conduct research into how current orders will be pushed to the Cafe-side app as the orders are placed	A couple of possible solutions for how the active orders will be shown on the Cafe app - using a method on a timer or using Google Cloud Messaging.	Complete	Benn	1	0.5	0
8.0	UI design for the Staff App	New repo for cafe-side/staff app created and some main features added. The remaining implementation will carry over to the next iteration.	Incomplete	Emily	8.5	9.5	2
8.1	Create separate project for the staff app	An new repo was created	Complete	Emily	0.5	0.5	0
8.2	Design the UI for main activity	The main activity page is used to login for viewing orders and a nav menu for manager	Complete	Emily	4	4	0
8.3	Design the UI for viewing the orders	The viewing of the orders is a working progress and needs slight adjustments to be completed	Incomplete	Emily	4	5	2
9.0	Conduct Integration Test and Static Review on the View Active Order implementation	View Active Order implementation was not completed this iteration so testing couldn't be carried	Incomplete	Benn	3.5	0	3.5

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		out. Testing will carry over to the next iteration.					
9.1	Conduct Integration Testing on the View Active Order implementation	View Active Order implementation was not completed this iteration so testing couldn't be carried out. Testing will carry over to the next iteration.	Incomplete	Benn	3	0	3
9.2	Conduct a Static Review on the View Active Order implementation	View Active Order implementation was not completed this iteration so testing couldn't be carried out. Testing will carry over to the next iteration.	Incomplete	Benn	0.5	0	0.5
10.0	Conduct Unit Tests and Integration Tests on the Create User and Login implementations	Grey-box unit and integration testing was completed on Create User and Login using Postman.	Complete	Emily	9	8	0
10.1	Conduct Unit Testing on the Create User implementation	PASS: Grey-box testing was used	Complete	Emily	3	3	0
10.2	Conduct Unit Testing on the Login implementation	PASS: Grey-box testing was used	Complete	Emily	3	2	0
10.3	Conduct Integration Testing on the Create User & login implementation	PASS: a user can be created and then login	Complete	Emily	3	3	0
11.0	Conduct Testing Revision/Research for the upcoming testing tasks	Jacob carried out Unit and Integration testing revision before proceeding with testing the Fill Cart use-case.	Complete	Multi	4	6	0
11.1	Research into how to go about Unit and Integration testing for the API and Android application.	Thorough research completed on how Unit and Integration testing could be carried out on PHP and Android Studio.	Complete	Jacob	4	6	0
12.0	Conduct any other needed research or risk-mitigation tasks relating to the project	The PHP beginner course was not completed this iteration	Incomplete	Multi	4	0	4
12.1	Complete a beginner tutorial on PHP coding	Benn didn't get time to continue with the PHP course this iteration so the job will carry over to next iteration	Incomplete	Benn	4	0	4
13.0	Complete outstanding class diagrams from previous iteration	Outstanding class diagrams for Browse Menu, Fill Cart and Place Order have been completed.	Complete	Multi	3	1.75	1

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13.1	Complete class diagram for the Browse Menu use-case	Class diagram for browse menu use case completed	Complete	Emily	1	.5	0
13.2	Complete class diagram for the Fill Cart use-case	Class diagram for the Fill Cart use-case completed	Complete	Benn	1	0.75	0
13.3	Complete class diagram for the Place an Order use-case	Class diagram for the Place an Order use-case is completed	Complete	Jake	1	0.5	0

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4. Issues

Issue	Status	Notes
There were no issues to report this iteration.		

5. Assessment

Assessment target	To complete all assigned jobs by the end of the iteration.
Assessment date	24/05/20
Participants	Benn Curby, Emily Carter, Jake Durnford and Jacob Kennedy
Project status	Yellow

Assessment against objectives

Objective	Status
Research how to implement the Fill Cart use-case	Complete - Research was carried out for the Fill Cart use-case and several solutions were found, including Shared Preferences with Android, PHP Sessions, and using the MySQL database.
Implement the Fill Cart use-case for the Android Customer app	Complete - Shared Preferences was initially tried to save the user cart, however after difficulty during implementation, the group decided to try another option. In the end Fill Cart was implemented using Recyclerview in Android and the MySQL database to store the users cart contents.
Conduct Unit Test, Integration Test and Static Review on the Fill Cart implementation	Complete - Unit testing was not carried out but Jacob has provided evidence as to why this type of testing was not suited. Integration testing was carried out using JUnit and the Fill Cart implementation passed testing. A final static review was conducted on the PHP code and the Android app before merging to catch any missed errors.
Research how to implement the Place Order use-case	Complete - Jake carried out research into how to implement the Place an Order use-case and a solution was found. A schema for the MySQL order table has been decided upon as well as ideas for how to implement the use-case within Android Studio.

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Implement the Place Order use-case for the Android Customer app	Incomplete - The Place Order use-case was not implemented this iteration. Jake has completed his research but the implementation job will carry over to the next iteration.
Conduct Unit Test, Integration Test and Static Review on the Place Order implementation	Incomplete - Testing for Place Order was not carried out this iteration as it was not implemented. This job will carry over to the next iteration.
Research how to implement the View Active Order use-case	Complete - Research was carried out for the View Active Order implementation. Some solutions were found, such as using a method on a timer to display new orders in the Active Order interface for the cafe.
Implement the View Active Order use-case for the Android Cafe Staff app	Incomplete - A new repo for the cafe-side/staff app was created, and some features were implemented such as login and an interface for viewing active orders. What remains of this implementation will carry over to the next iteration.
Conduct Integration Test and Static Review on the View Active Order implementation	Incomplete - The View Active Order use-case was not fully implemented, so the testing was not carried out and will carry over to the next iteration.
Conduct Unit Tests and Integration Tests on the Create User and Login implementations	Complete - Emily carried out Grey-box unit and integration tests on the Create User and Login use-cases using Postman. Both use-cases passed these tests.
Conduct Testing Revision/Research for the upcoming testing tasks	Complete - Jacob carried out testing revision/research before completing his testing on the Fill Cart use-case.
Conduct any other needed research or risk-mitigation tasks relating to the project	Incomplete - A risk mitigation task of completing a beginner PHP course was set for Benn, however it was not completed this iteration. Finishing the PHP course will carry over to the next iteration.
Complete outstanding class diagrams from previous iteration	Complete - Class diagrams for Browse Menu, Fill Cart and Place Order were completed.

6. Risk Mitigation

Risk	Status
The team has little experience using the PHP language	Ongoing but reduced - Benn implemented more PHP

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(apart from the Competency Demo)	code for the Fill Cart use-case and increased his skills with PHP. He did not, however, get time to finish the beginner PHP course as planned. This task will carry over into the next iteration. The lack of PHP knowledge now represents a small risk, but shouldn't be marked as mitigated until the PHP course has been completed.
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