

Beverage Booker	
Iteration Plan 1	Date: 12/07/20

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1. Key milestones

Milestone	Date
Iteration start	13/07/20
LCAM documents updated and re-submitted	17/07/20
Empty Cart use-case implemented	18/07/20
Empty Cart use-case tested	22/07/20
Book Delivery (Customer) use-case implemented	22/07/20
Book Delivery (Customer) use-case tested	23/07/20
Book Delivery (Staff) use-case implemented	26/07/20
Book Delivery (Staff) use-case tested	26/07/20
Customer App Menu Bar implemented	26/07/20
UATs for Empty Cart, Book Delivery & Book Pick Up	26/07/20
Iteration stop	26/07/20

2. High-level objectives

- Update/check LCAM documents for resubmit and add the documents to the team wiki
Outcome: Documents are updated if needed and links to updated documents in version control are present on the LCAM page of the team wiki.
- Research payment gateway and implement the gateway in the customer app
Outcome: Payment gateway is integrated into the customer app and the customer can now pay for their orders
- Research a push notification mechanism and implement in the Staff/Customer app
Outcome: A push notification mechanism is implemented so that when an order is filled by the staff the customer will get a notification through the customer app saying their order is ready
- Implement and test Empty Cart use-case for the Android Customer application
Outcome: Empty Cart functionality is implemented and working within the Customer application. Use-case has passed Instrumented Unit and Integration testing.
- Implement and test Book Delivery use-case for the Android Customer application
Outcome: Book Delivery functionality is implemented and working within the Customer application. Use-case has passed Instrumented Unit and Integration testing.
- Research, analyse and revise project architecture and previous implementations
Outcome: Jacob will have a greater understanding and overview of the project structure before he then proceeds with his assigned use-case implementations.
- Conduct research into implementing the Sign Out use-case. Implement and then test the Sign Out use-case.
Outcome: Sign Out functionality is implemented and working within the Customer application. Use-case has passed Instrumented Unit and Integration testing.

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8. Conduct research into implementing the View Order use-case. Implement and then test the View Order use-case.
Outcome: View Order functionality is implemented and working within the Customer application. Use-case has passed Instrumented Unit and Integration testing.
9. Write up UAT tests for the Empty Cart, Book Delivery, Book Pick Up and Sign Out use-cases.
Outcome: UAT test document is written up and ready for the end of iteration round of UAT testing to be carried out.
10. Conduct end of iteration UAT testing on Empty Cart, Book Delivery, Book Pick Up and Sign Out use-cases
Outcome: UAT testing has been carried out on the implemented use-cases for this iteration.
11. Conduct research into implementing the Menu Bar use-case. Implement and then test the Menu Bar.
Outcome: Functioning menu bar for the app that has Home, Account, Cart and Sign Out.
12. Implement and test Book Delivery for the Staff App
Outcome: The cafe staff can now view delivery addresses and mark orders delivered from the app
13. Create or update any other documentation for the project
Outcome: Documentation for the project is up to date and current at the end of the 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	Update/check LCAM documents for resubmit and add the documents to the team wiki	All LCAM documentation has been updated, checked and linked on the team wiki for re-submission	Complete	Multiple	8	9.9	0
1.1	Project plan	Adjusted the use case implementation schedule added 5th construction phase	Complete	Emily	1	1	0
1.2	Architecture Notebook	Checked for required changes. Made changes to add some new points and updated the use case model in the document to the new one.	Complete	Jake	2	2	0
1.3	Project Vision	Updated to reflect revised scope of project.	Complete	Jacob	1	1	0
1.4	NFR Specification & Checklist	Updated to reflect revised scope of project.	Complete	Jacob	2	2.5	0
1.5.1 1.5.2 1.5.3	Use-Case Models	Use-Case Models updated to reflect revised scope of project.	Complete	Benn	1	1	0

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1.5.4 1.5.5							
1.6	Master Test Plan	Updated testing plan to reflect revised scope. Account Features testing now View Account (edit account info).	Complete	Benn	1	1	0
1.7	Short & Full Use-Case Descriptions	Removed use-cases relating to account features to reflect revised scope.	Complete	Benn	1	1	0
1.8	Domain Model	Removed use cases that are not being implemented	Complete	Emily	1	.25	0
1.9	Risk List	Double checked risks and change according to the new project plan	Complete	Emily	1	.15	0
2.0	Research payment gateway and implement the gateway in the customer app	Found that Braintree looks like the best option for the payment gateway. Tried to follow a tutorial but could not get it to function. Will continue with this next iteration.	Incomplete	Benn	10	4.5	6
2.1	Conduct research into how to implement a payment gateway within our Android customer app	Research found that using Braintree might be the best way to implement a payment gateway within our app.	Complete	Benn	4	3	0
2.2	Implement payment gateway test version from 1st tutorial	Followed the 1st tutorial I found on Braintree implementation within Android but unfortunately could not get it to work.	Complete	Benn	2	1.5	0
2.3	Implement payment gateway test version from 2nd tutorial	Did not get to the task of following this 2nd tutorial on implementing Braintree within Android. Will address this next iteration.	Incomplete	Benn	2	0	2
2.4	Implement payment gateway within the Customer App	Did not get to implement Braintree within our app. Hopefully after following the 2nd tutorial this can be addressed next iteration.	Incomplete	Benn	4	0	4
3.0	Research a push notification mechanism and implement in the Staff/Customer app	Push notifications incomplete - job will carry over to the next iteration	Incomplete	Emily	15	13	2
3.1	Figure out what kind of notification type is required	Firebase cloud messaging will be used to send notifications	Complete	Emily	2	3	0

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3.2	Understand how to integrate this between 2 different apps	The server should be able to trigger the notification of customer without the staff app sending a notification	Complete	Emily	2	4	0
3.3	Research and implement tokens for users to receive correct notifications	This is only half completed	Incomplete	Emily	3	4	2
3.4	Create notification methods for the customer app	Only one method has been completed	Incomplete	Emily	4	2	2
3.4	Produce server side implementation	Not attempted yet	Incomplete	Emily	4	0	4
4.0	Implement and test Empty Cart use case for the Android Customer application	emptyCart implemented and tested.	Complete	Jacob	6	8	0
4.1.1 4.1.2	Create a new button on the cart screen that will empty cart when clicked	A new button is present on the cart screen, which when clicked will delete the entries of the cart then send the user back to the menu.	Complete	Jacob	1	2.5	0
4.2	Create a new function in the API allowing for the emptying of the cart	New functions were created in the API PHP to accomodate for the completion of this use case.	Complete	Jacob	3	4	0
4.3.1 4.3.2	Conduct Testing on the Empty Cart implementation for Application	Testing has been conducted using the Espresso framework to test functionality.	Complete	Jacob	1	1.5	0
5.0	Implement and test Book Delivery use case for the Android Customer application	bookDelivery implemented and tested.	Complete	Jacob	17	11	0
5.1	Create a new activity that come after the cart page that has multiple choices e.g. pickup or delivery	A new activity was created to appear after the cart screen asking about the users order type (pick up or delivery).	Complete	Jacob	2	1	0
5.2	Create a new class to accomodate for the implementation of Book Delivery	A new class was created to accommodate for the use case.	Complete	Jacob	3	2.5	0
5.2	Create a new database that will allow for entries that can hold a delivery request	A new database was created that stores information regarding the delivery e.g. the address.	Complete	Jacob	1	0.5	0

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5.3.1 5.3.2	Create a new function in the API allowing for the adding of entries into the database	New functions in the API were created to accommodate for the implementation of this use case.	Complete	Jacob	3	2	0
5.4	Create error handling for Book Delivery use case	Error handling is now present to check the data entered by the user - this includes empty fields and other things.	Complete	Jacob	2	1.5	0
5.5	Change Book Delivery to make it create an entry to the database after the user has confirmed their order	Book Delivery now only makes an entry to the database after the user has confirmed their order.	Complete	Jacob	2	1.5	0
5.6.1 5.6.2	Conduct Testing on the Book Delivery implementation for Application	Book Delivery has now been tested using the Espresso testing framework.	Complete	Jacob	2	2	0
6.0	Research, analyse and revise project architecture and previous implementations		Complete	Jacob	6	5.5	0
6.1	Research how to go about the implementation of assigned use cases	I conducted research into what is required and how to implement it e.g. how retrofit operates in the API file of Android Studio.	Complete	Jacob	2	2	0
6.2	Analyse past implementations to assist in understanding of the functionality of the application	I analysed past implementations to refresh my understanding of how the application worked.	Complete	Jacob	2	2.5	0
6.3	Revise Espresso testing from past testing and online examples	I revised how Espresso testing is conducted to refresh my understanding of what is required in testing.	Complete	Jacob	2	1	0
7.0	Conduct research into implementing the Sign Out use-case. Implement and then test the Sign Out use-case.	Sign out button is implemented but requires a formal test to provide evidence of it functioning correctly or finding an issue with it that is currently unknown.	Incomplete	Jake	4	2.5	0
7.1	Figure out a method of implementing the use case.	Use the clear button that we used for previous versions and make it a sign out button.	Complete	Jake	1	1	0

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7.2	Research anything I might not understand that is required to implement the use case.	Checked out how the clear button functioned so I wasn't using it incorrectly.	Complete	Jake	1	1	0
7.3	Implementing sign out use case.	Changed the link to where the button takes the user to after sign out and renamed it from clear to sign out.	Complete	Jake	1	0.5	0
7.4	Test implementation to check that it works correctly.	Need to do some formal testing. This will be completed next iteration.	Incomplete	Jake	1	0	1
8.0	Conduct research into implementing the View Order use-case. Implement and then test the View Order use-case.	Didn't have time to complete the work.	Incomplete	Jake	13	0	13
8.1	Figure out a method of implementing the use case.	Didn't have time to complete the work.	Incomplete	Jake	1	0	1
8.2	Research anything I might not understand that is required to implement the use case.	Didn't have time to complete the work.	Incomplete	Jake	4	0	1
8.3	Implementing view order use case.	Didn't have time to complete the work.	Incomplete	Jake	4	0	4
8.4	Test implementation to check that it works correctly.	Didn't have time to complete the work.	Incomplete	Jake	4	0	4
9.0	Write up UAT tests for the Empty Cart, Book Delivery, Sign Out and View Order use-cases.	UATs for Empty Cart, Book Delivery & Book Pick Up written and ready for testing.	Complete	Benn	4	3	0
9.1	Write up UAT tests for the Empty Cart, Book Delivery & Book Pick Up use-cases.	UATs for Empty Cart, Book Delivery & Book Pick Up written and ready for testing.	Complete	Benn	4	3	0
10.0	Conduct end of iteration UAT testing on implemented use-cases	UATs for Empty Cart, Book Delivery & Book Pick Up use-cases completed.	Complete	Multiple	4	4	0
10.1	Conduct end of iteration UAT testing on implemented use-cases	UATs for Empty Cart, Book Delivery & Book Pick Up use-cases completed.	Complete	Benn	1	1	0

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10.2	Conduct end of iteration UAT testing on implemented use-cases	Completed UAT testing for the use cases completed this iteration	Complete	Emily	1	1	0
10.3	Conduct end of iteration UAT testing on implemented use-cases	Completed UAT testing for the use cases completed this iteration	Complete	Jacob	1	1	0
10.4	Conduct end of iteration UAT testing on implemented use-cases	UAT testing is completed for the use-cases that were implemented this session.	Complete	Jake	1	1	0
11.0	Conduct research into implementing the Menu Bar use-case. Implement and then test the Menu Bar.	A menu bar was added to the top of the app for an easier way to travel to important screens.	Complete	Jake	13	12.5	0
11.1	Figure out a method of implementing the optimization.	By using fragments we can either restructure the entire app to be displayed using fragments or have a fragment in each activity to display a menu to switch activities.	Complete	Jake	1	1	0
11.2	Research anything I might not understand that is required to implement the optimization.	Researched some solutions.	Complete	Jake	4	4.5	0
11.3	Testing out ideas found during research.	Tested some fragment ideas to understand my solution options.	Complete	Jake	2	2	0
11.4	Implementing menu bar optimization.	Added the Menubar fragment on required pages and have the functionality of the menu buttons on it working correctly.	Complete	Jake	4	4	0
11.5	Test implementation to check that it works correctly.	Did basic developer testing where I just checked that it was working as I was working and after I finished	Complete	Jake	2	1	0
12.0	Implement and test Book Delivery for the Staff App	Staff App can now view delivery addresses for orders as they are placed. Orders can be marked as delivered from the app as they are delivered.	Complete	Benn	8	9	0

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12.1.1 12.1.2 12.1.3 12.1.4	Implement the ability for staff to view deliveries and submit them as delivered within the Staff App	Staff can now view a list of deliveries with addresses. There is a 'delivered' button which the delivery drivers can press once the delivery has been made. This updates the delivery list and marks the order delivered in the database.	Complete	Benn	4	5	0
12.2.1 12.2.2	Make adjustments to Book Delivery on the Customer App	Adjustments made to the Customer App to meet up with the staff. Also removed input for Postcode and City from customers to remove possible bug of people requesting delivery outside Bathurst.	Complete	Benn	2	2.5	0
12.3	Integration Test for Book Delivery use-case	Wrote and integration test that checks the activities and also checks for the order from the Place Order automated test on the Customer App	Complete	Benn	2	1.5	0
13.0	Create or update any other documentation for the project	Documents updated for the iteration.	Complete	Benn	2	1.5	0
13.1	Create wireframe for the Customer App	A wireframe model of the Customer App has been created using Balsamiq	Complete	Benn	2	1.5	0

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4. Issues

Issue	Status	Notes
No issues to report this iteration.		

5. Assessment

Assessment target	To complete all assigned jobs by the end of the iteration.
Assessment date	26/07/20
Participants	Benn Curby, Emily Carter, Jake Durnford and Jacob Kennedy
Project status	Orange/Green - Some jobs incomplete

Assessment against objectives

Key:

Complete - Completed successfully this iteration.

Incomplete - Remains incomplete but not due to lack of time devoted by assigned team members.

Incomplete - Remains incomplete and will require explanation and escalation.

Objective	Status
Update/check LCAM documents for resubmit and add the documents to the team wiki	Complete - LCAM documentation updated, checked and re-submitted via links on the team wiki.
Research payment gateway and implement the gateway in the customer app	Incomplete - Payment gateway implementation researched and settled on Braintree as a suitable option for our app. Followed a tutorial implementation but payment functionality was not operating upon completion. This task will carry over as a priority to the next iteration.
Research a push notification mechanism and implement in the Staff/Customer app	Incomplete - Research was carried out by Emily along with some early integration trials for push notifications, however this job remains incomplete. This will carry over to the next iteration.
Implement and test Empty Cart use-case for the Android Customer application	Complete - Jacob successfully implemented the Empty Cart use-case within the customer app. Automated instrumented unit and integration tests were also conducted, with both passing. Empty Cart also passed the end of iteration UAT.
Implement and test Book Delivery use-case for the Android Customer application	Complete - Jacob successfully implemented the Book Delivery use-case within the customer app. Automated instrumented unit and integration tests were also

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	<p>conducted, with both passing.</p> <p>Book Delivery passed some of the end of iteration UATs, however testing for invalid input failed. Input validation will need to be addressed in a later iteration</p> <p>- other tasks may be prioritised first due to risk.</p>
Research, analyse and revise project architecture and previous implementations	<p>Complete - Jacob successfully analysed and revised previous implementations and the project structure. This then gave him a greater understanding before proceeding with his assigned implementation jobs.</p>
Conduct research into implementing the Sign Out use-case. Implement and then test the Sign Out use-case.	<p>Incomplete - Jake successfully completed the Sign Out use-case implementation. Testing was not carried out this iteration and will carry over to the next iteration as a priority.</p>
Conduct research into implementing the View Order use-case. Implement and then test the View Order use-case.	<p>Incomplete - Jake did not get time to complete the View Order use-case job this iteration. This job will carry over to the next iteration.</p>
Write up UAT tests for the Empty Cart, Book Delivery, Sign Out and View Order use-cases.	<p>Complete - Benn wrote up the UAT document for the completed use-cases: Empty Cart, Book Delivery, Book Pick Up and Sign Out.</p>
Conduct end of iteration UAT testing on Empty Cart, Book Delivery and Book Pick Up use-cases.	<p>Complete - Benn, Emily, Jacob and Jake each completed a round of UATs on the implemented use-cases.</p> <p>Use-cases tested: Empty Cart, Book Delivery and Book Pick Up.</p>
Conduct research into implementing the Menu Bar use-case. Implement and then test the Menu Bar.	<p>Complete - Jake completed the menu bar research and implementation task and carried out developer testing as he progressed. However, the implementation was completed too close to the end of the iteration to be included in the end of iteration UAT. UAT for the menu bar will be completed next iteration.</p>
Implement and test Book Delivery for the Staff App	<p>Complete - Benn successfully implemented the Book Delivery use-case within the Staff app, along with some minor adjustments to the customer app. Cafe delivery staff can now view a delivery list of orders with addresses, and mark them as delivered.</p>
Create or update any other documentation for the project	<p>Complete - Benn created a wireframe for the Customer app UI. This will be used as a reference when discussing the app in meetings to help keep UI features consistent among team members.</p>

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Deviations / Ongoing Tasks

Objective	Status
Research payment gateway and implement the gateway in the customer app	Ongoing - Progress made with payment gateway research but difficulty implementing a test version via tutorial. This job is ongoing and will carry over into the next iteration.
Research a push notification mechanism and implement in the Staff/Customer app	Ongoing - Progress was made with push notification research. Early stages of test implementation - this job is ongoing and will carry over into the next iteration.
Conduct research into implementing the Sign Out use-case. Implement and then test the Sign Out use-case.	Ongoing - Jake completed the Sign Out use-case implementation, however he ran out of time to write the automated tests for the use-case. The testing for this task will carry over to the next iteration. This use-case was also implemented too close to the end of iteration and could not be included in the end of iteration UATs. Sign Out will be included in the next round of UATs.
Conduct research into implementing the View Order use-case. Implement and then test the View Order use-case.	Postponed - Jake did not get time to complete this task this iteration as his previous jobs took longer than anticipated. This job has been postponed but will carry over to the next iteration.
Implement and test Book Delivery use-case for the Android Customer application	Complete - Jacob successfully implemented the Book Delivery use-case within the customer app. However, during the UATs the use-case did fail a couple of tests because the user input can accept bad data (e.g. numbers in the street name field.) Postponed - This UAT result has generated a new job: Book Delivery input validation. It should involve some simple regex on the street number and street name fields. This job is low priority/risk and will likely be addressed in a later iteration.

6. Risk Mitigation / Escalation

Risk	Status
No risk mitigation/escalation tasks this iteration.	