

FIT2001: Systems Development

Workshop 6 – Suggested Solutions/Support Material

Objectives:

- Practice requirements gathering and documentation techniques – Story mapping, User Stories and Activity Diagrams
- Reflect on Assignment 1 and conduct Assignment 1 Retrospective
- Understand and Plan for Assignment 2

The following activities are involved in this workshop:

- Activity 1: Review QUIZ (via Flux)
- Activity 2: Complete CATME.
- Activity 3: Assignment 1 Retrospective
- Activity 4: User Story Mapping
- Activity 5: Activity Diagram
- Activity 6: Assignment 2 Planning
- Workshop Quiz (happen at various time each week)

Activity 1: Review QUIZ (~5 mins)

Q1. Which one of the following user stories is a complete user story with all the required detail?

- A) As a customer I want to see all detailed bike information so that I can make a decision as to whether book the bike
- B) As a customer, I want to see current promotions for any searches that I make, so that I can reserve bikes based on the best deal I can get. Given I want to get a good deal, When I enter any search criteria, Then All available bikes for the search criteria must highlight any promotions associated with them.
- C) As a staff member I want to enter results in the system for all my subjects
- D) As a student show me all my results, so that I know whether I have failed or passed. Given I want to see my results, then show them to me.

A1 Discussion:

Many students did not answer this type of question correctly in the Quiz. It is important to understand that a complete, detailed user story MUST include the acceptance criteria.

A – no acceptance criteria ... the start of the story is in the ideal format

B – perfect, right format and includes acceptance criteria

C – the WHY? component of the story is missing, and the acceptance criteria not included

D – this is a partial garbled mess, please don't write stories like this.

Activity 4: User Story Mapping

TASK – from Workshop 5 (continue with this if required)

- Work with the class to identify all journeys for Bayside Bikes for booking/rental function (see Google Drive for journeys)
- Work with your Assignment teams in the breakout rooms
- Task: Conduct User Story Mapping Workshop for the following Bayside Bikes journeys
 - Find a suitable bike, Make a booking
 - NOTE: Complete all the user stories, including the acceptance criteria for each user story
- Be prepared to discuss your user story map and user stories with the class.
- **NOTE: Use MIRO to do your User Story Mapping**

A4 Possible Solution:

Here are some examples of the journeys, epics (steps) and features – some of which have been converted to User Stories. Please note that this is not a complete solution, and that this is just one version. You may have a variation that is completely valid as well. For Assignment 2 all this information will be in the MIRO story map.

IMPORTANT NOTE: The following shows the examples of story map (of the journeys, epics (steps) and features – some of which have been converted to User Stories) - there are many possible variations. This will give you some idea of what is expected during a story mapping workshop.

When you are in industry, you would be actively engaging with the customer to ensure that the story map and user stories reflect the customer's requirements. You may have left many things out, made some assumptions or added things in. All of this is perfectly fine, as these things would get ironed out during discussion with the client. You may have also levelled it quite differently - what we have as Epics, you may have as User Stories, and what we have as User Stories you may have as EPICS.

The merging or splitting of user stories occurs when you sit with the Product Owner and the Developers (and possibly other stakeholders etc.) to work out their detailed requirement, and when you go through the estimation process. Unfortunately, we do not have the time to go through this iterative discussion process with the customer in this unit, but you will have the opportunity to, in the Industry Experience Project unit if you do it.

Journeys (shown in yellow)

- Find a suitable bike
- Make a booking
- Pick up/rent a bike
- Return a bike

EPICS (shown in blue) and then **Features (shown in pink)** to be developed into User Stories

FIND A SUITABLE BIKE

● Search for bike

○ Search by date/time period

As a customer, **I want** to be able to view availability of all the different types of bikes over different day and time periods easily, **so that** I can make a decision as to whether to make a booking

Acceptance criteria:

Given I want to view bikes by date and time

When I enter the date and time

Then All available bikes for that date and time are displayed

Given I want to reserve a bike when I see its availability

When I see an available bike

Then I want to be able to reserve it

Given my dates may not be available

When I enter the date and time

Then I should have the option to see availability for preceding and later weeks

All the detail for the 'Search by' User Stories are similar to the 'Search by date/time period' user story.

○ Search by bike brand

○ Search by bike type

○ ...

○ View current promotions

As a customer, **I want** to see current promotions for any searches that I make, **so that** I can reserve bikes based on the best deal I can get

Acceptance criteria:

Given I want to get a good deal

When I enter any search criteria

Then All available bikes for the search criteria must highlight any promotions associated with them.

● View bike

○ View bike information

As a customer, **I want** to see all detailed bike information, **so that** I can make a decision as to whether book the bike

Acceptance criteria:

Given I want to make a decision about booking the bikes

When I select View bike

Then All detailed information about the bike should be displayed

MAKE A BOOKING

- **Make a booking online**

- **Book online**

As a customer, **I want** to make bookings online, **So that** I do not have to physically come into the store, as that is very inconvenient *Acceptance criteria:*

Acceptance criteria:

Given I want to make a booking online

When I go to the Bayside Bikes website

Then the booking online option is available

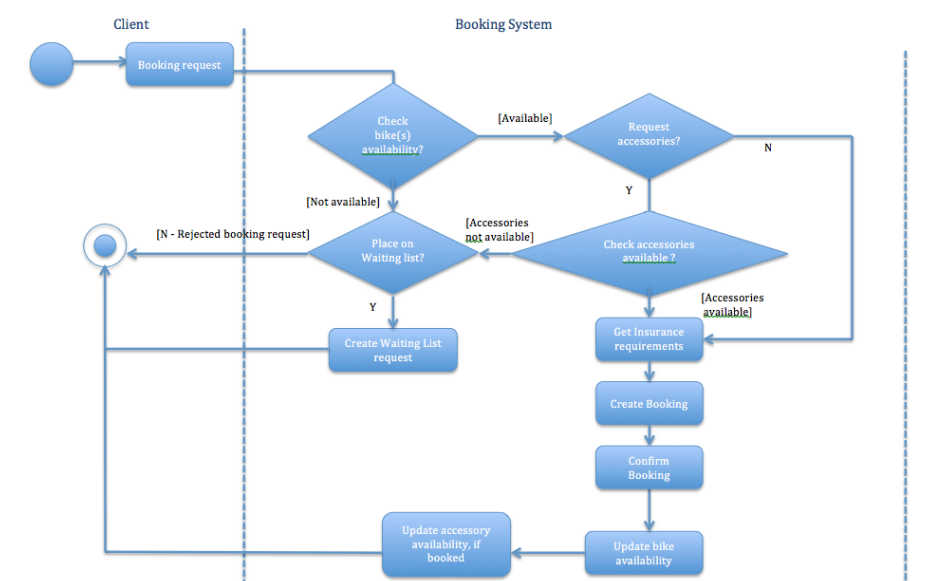
- **Enter booking details**

- ...

Activity 5 – Activity Diagram

- Task: Prepare the Activity diagram to meet the business requirements for the 'Booking Request' function. (~20 mins)

A4 Possible Solution:



Activity 3 & 6: Assignment 1 Retrospective, Assignment 2 Planning (~40 minutes)

- If you did not get a chance to do your Assignment 1 retrospective, please do make an effort to do it. If you do it honestly, it will make a HUGE difference to your success in Assignment 2.