**Bookworms Library Presentation**

**Week 1/2: My SQL – MyLibrary (Mel)**

* Drafted user stories based on:
  + Customers (e.g. parent, child, student etc.)
  + Library Administrator
* Used these to design DML (data manipulation language) statements i.e. Select, Insert, Update, Delete etc.

<https://github.com/sarahrainbow/Bookworms/blob/master/Docs/2-UserStories.md>

* Created our different iterations of the library application in MySQL:
  + Added further normalisation e.g. Genre, Branch, City
  + Created BookISBN/AuthorID as many-to-many
  + Customer??? (what’s the link to customer???)
* Created user scripts based on the user stories.

<https://github.com/sarahrainbow/Bookworms/blob/master/UserStory_SQLScripts.sql>

**SHOW:** Examples of user script in SQL

* Using Joins to search and show information - User Story 17
* Updating information (including via Stored Procedure) – UpdatePassword

<http://localhost:8080/phpmyadmin/db_routines.php?server=1&db=libraryapp&type=PROCEDURE>

**Week 3/4: OOP (Sarah)**

* Created a list of classes
  + Organised by the MVC (model-viewer-controller) method – which organises code based on its purpose (e.g. model – defines calculation, view – how you see and interact with the code, controller – acts as a liaison between model and view).
  + Designed test file, which collated all the tests to run quicker.

**SHOW:** Schema for OOP

* + Customer, CustomerViewer and CustomerController – as MVC model which used inheritance.

<https://github.com/sarahrainbow/Bookworms/blob/master/Docs/LibraryAppClasses-SR.pdf>

**SHOW:** Netbeans Library Application

* + Traits – add/delete items
  + Interfaces – Viewable
  + Abstract class – person (customer/employee)

**Week 5: Website (Cyn)**

* Drafted wireframe for overall layout of website (sunny / rainy days)

<https://github.com/sarahrainbow/Bookworms/blob/master/Docs/LibraryWireframe.pptx>

* Functionality: Search and loan out books, create customer profile, login/logout.

**SHOW:** Website example – show search example

**Working as a team (Faith)**

* Struggled in first week, though collaborated we divvied out the items vertically rather than horizontally i.e. one person did user stories, one person did the code etc.
* After first session with Victoria did not go well, learnt our lessons.
  + Marathon session on the weekend which set precedent for how we work together
  + Daily stand ups on Whatsapp – what did we do yesterday, what will we do today, any impediments.
  + Organise hangouts on weekend, where even if someone isn’t available still go ahead and then share the information. Usually two / three people are available, and normally one acts as liaison with the one who can’t make it.
  + Divvy tasks so that everyone writes the code – do example of each in the hangout and then work on the code ourselves (Brainstorm then practice)
  + Monday evening – catch up and go through code.
  + Iron out issues – discuss problems.
  + After each Tuesday hangout – write sprint retrospective and review (<https://github.com/sarahrainbow/Bookworms/blob/master/Docs/7-Sprint1-Retrospective.md>)
  + Used agile / scrum techniques i.e. T-Shirt sizes to guestimate time to develop code.

**Tools we used:**

* + Trello
  + GitHub
  + Whatsapp

**Learning Curves / Making it harder for ourselves**

* Learning GitHub in week one
* MVC model in week three