



Curriculum Mapping System



**1. Project
Introduction**



**2. Product
Demo**



**3. Design
Architecture**



**4. Project
Reflection**

Team Redback

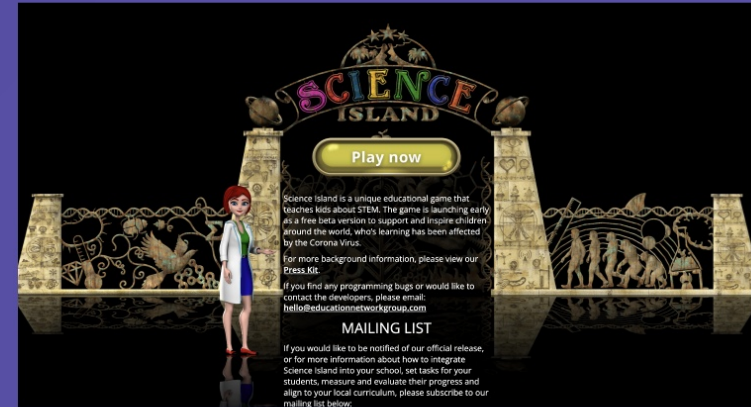
Jiayi Li	1097419
Zuguang Tong	1273868
Haorun Yang	1067299
Jiafu Zhang	1184772
Yiqing Ding	1113840

1. Project Introduction

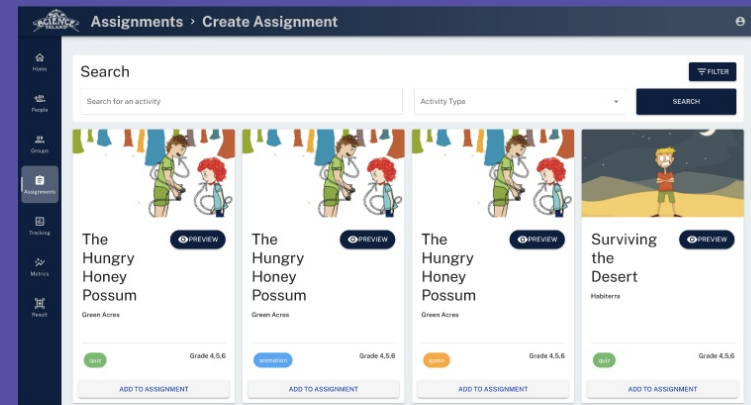
- **Science Island**
 - STEM based online game
- **Science Island Teacher Portal**
 - Comprehensive online platform
 - User management
 - Assignment management
 - Curriculum mapping
(Australian Curriculum)
 - Learning metrics and reports



Developing the **curriculum mapping system** and **Assignment extension in Teacher Portal**

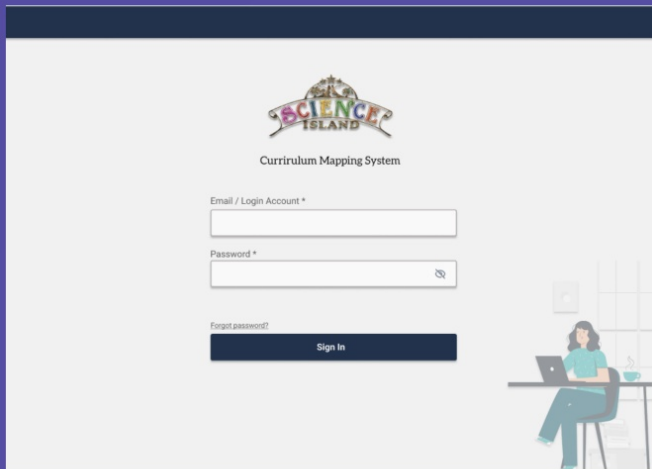


120+ Quests



120+ Activities

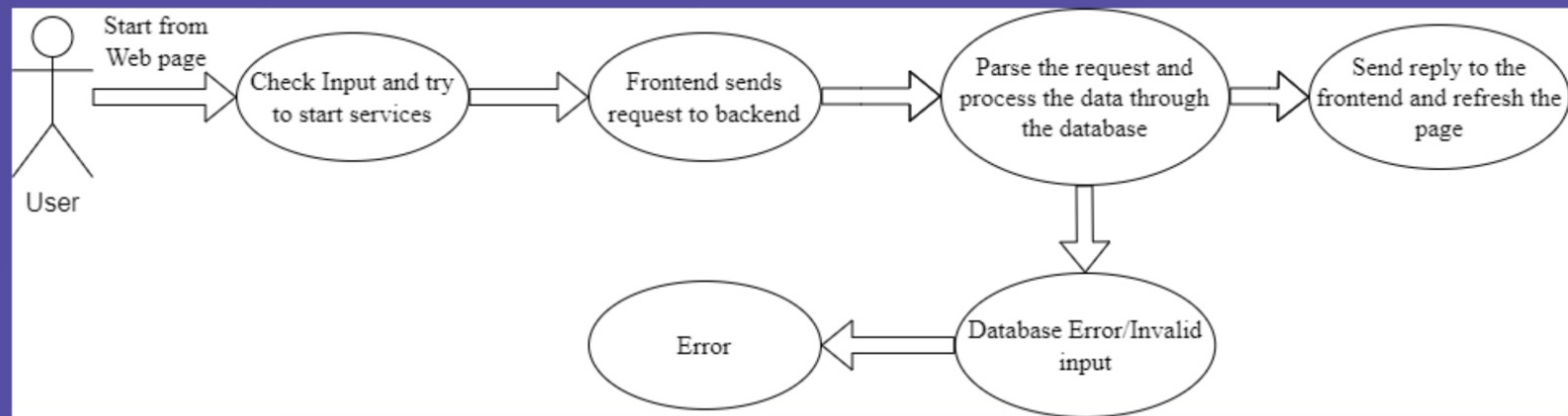
2. Product Demo



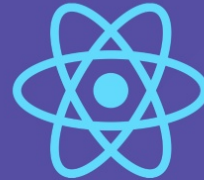
Let's go to our new system!

3. Design Architecture

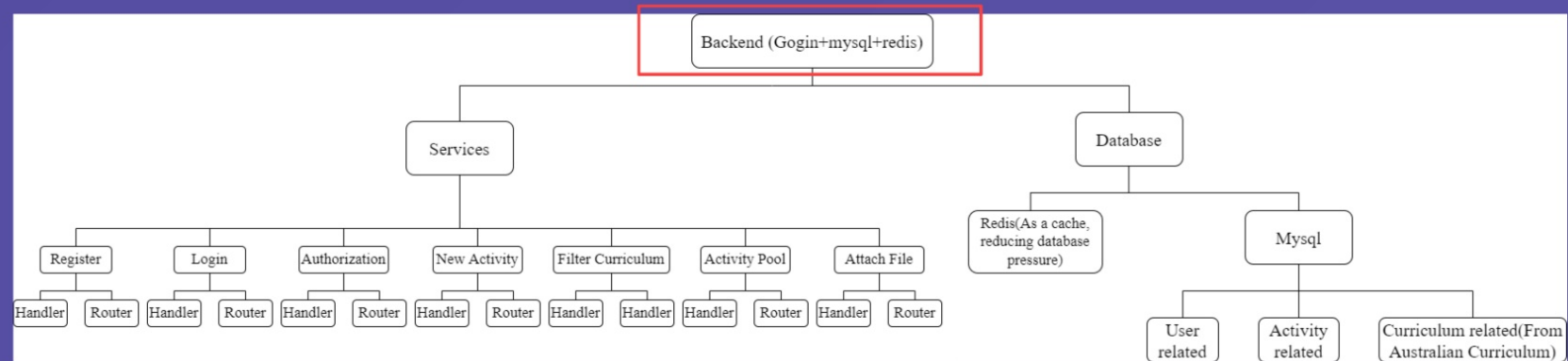
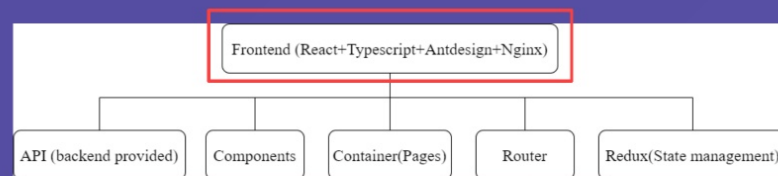
User Interaction



3. Design Architecture

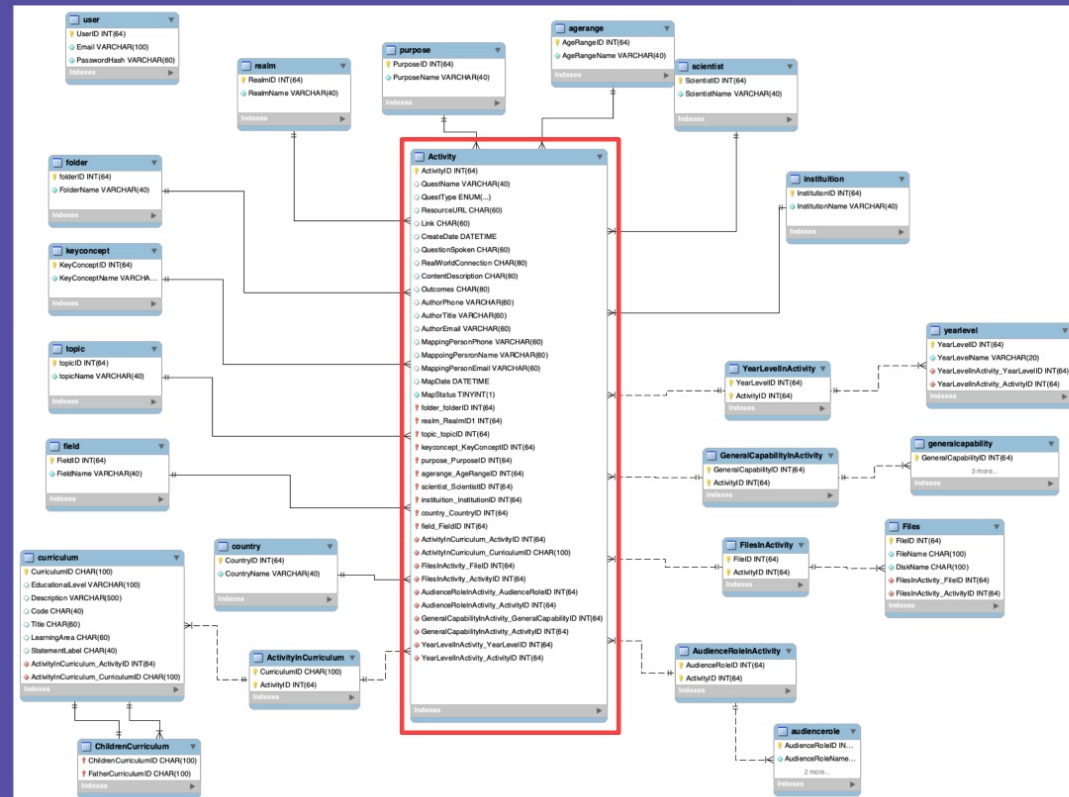


Application Architecture



3. Design Architecture

Database Schema



4. Project Reflection

Requirements - User Stories

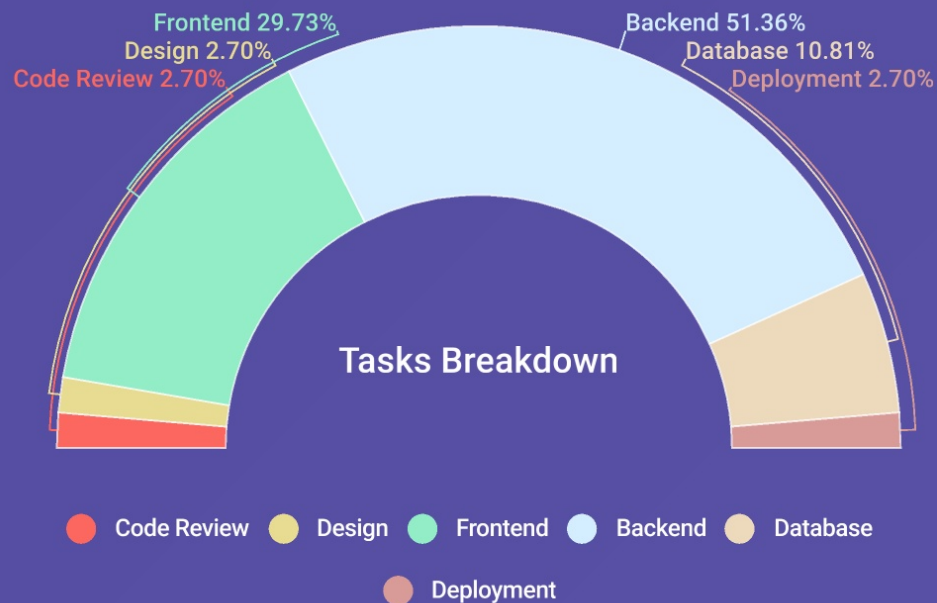
• Sprint 1

Total
11

• Sprint 2 & 3

Tasks
24

Jira
Issues
33



In
Scope
31

Out
Scope
2

- ScOT Term
- International Curriculum

Completed
28

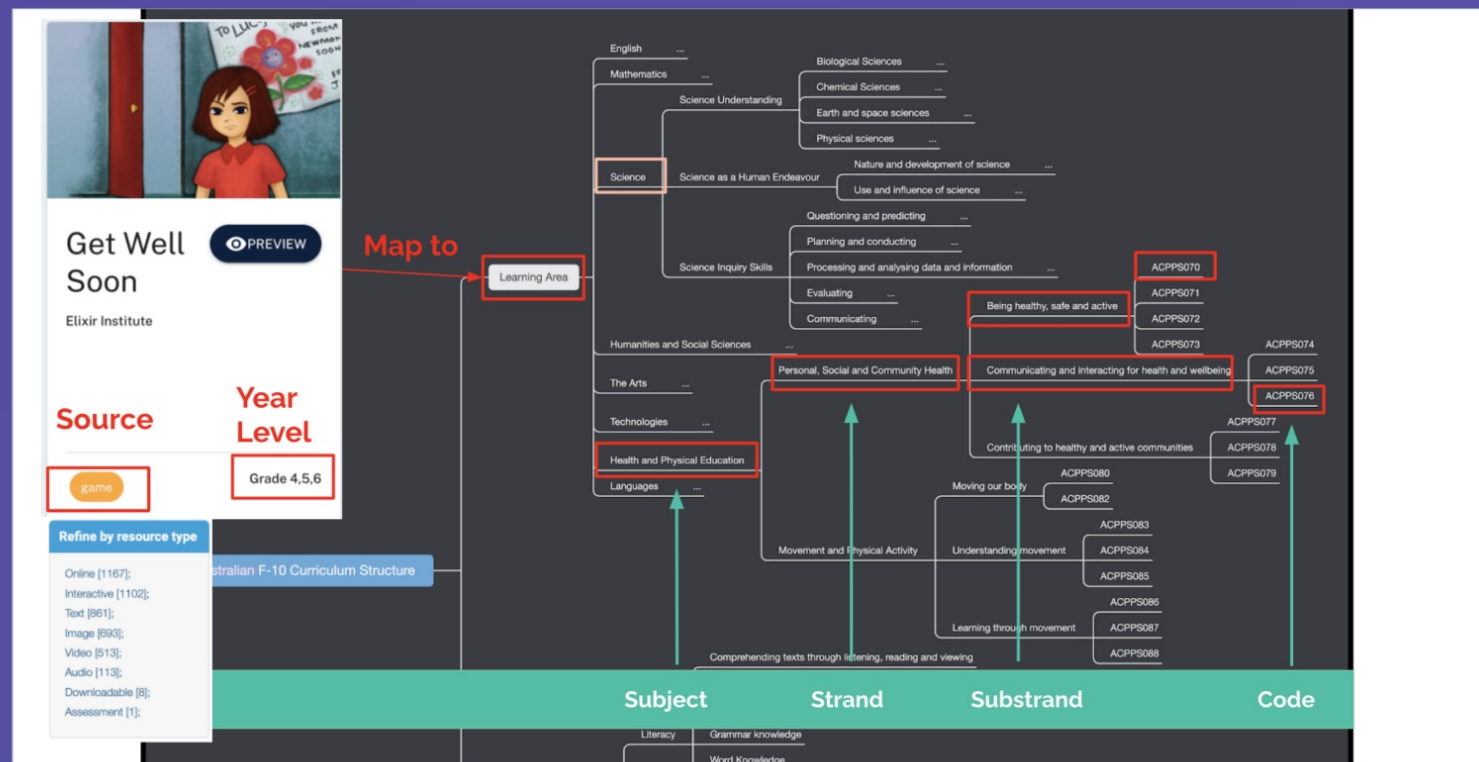
In Progress
5

- Curriculum Mapping System

- Last API in the Curriculum Mapping System
- Assignment Extension in Teacher Portal

4. Project Reflection

Project Highlight (Tech & Non-Tech) Australian Curriculum Structure breakdown



Project Highlight (Tech & Non-Tech)

Australian Curriculum Structure breakdown

18.

4. Project Reflection

Project Highlight (Tech & Non-Tech) Australian Curriculum Structure breakdown

User Story Example:

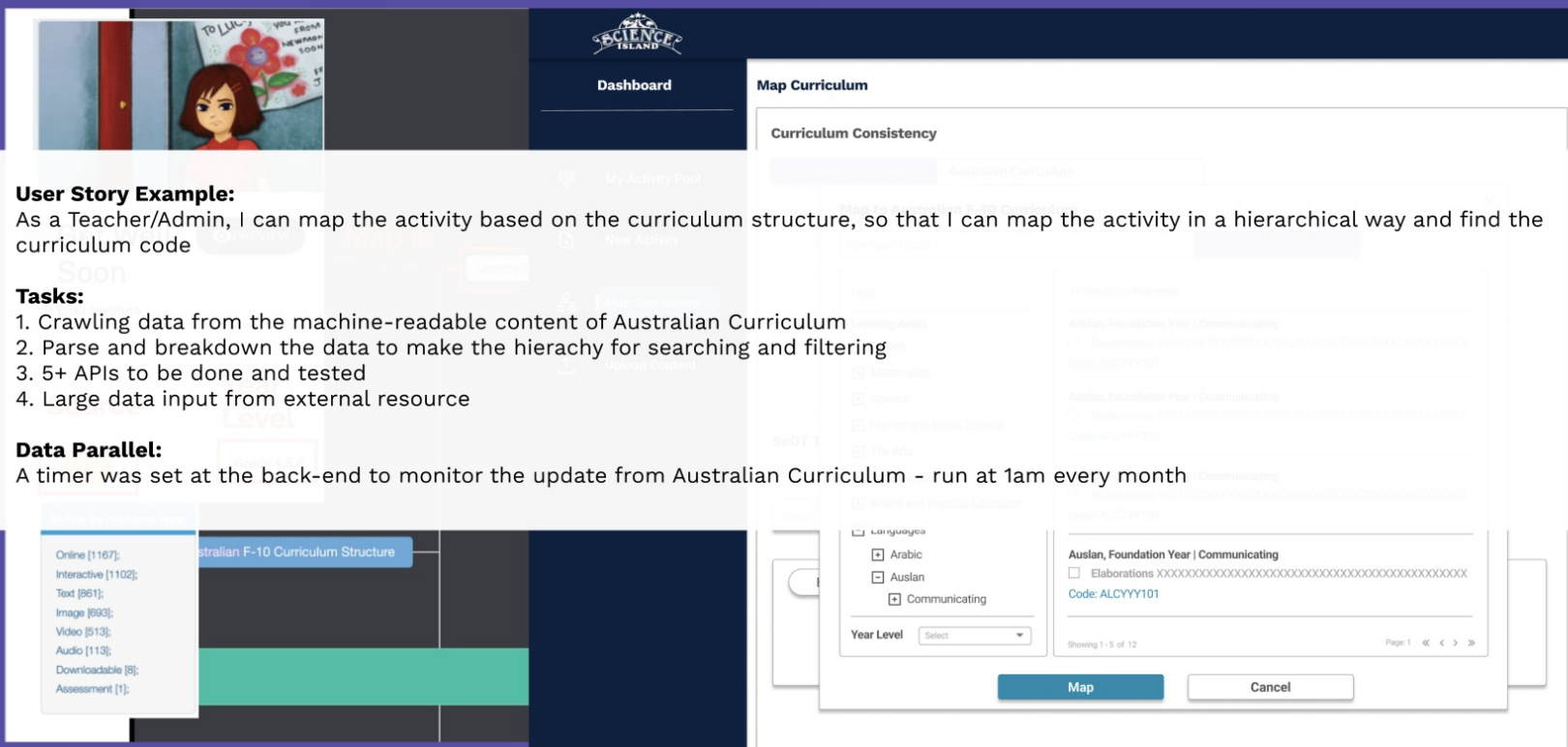
As a Teacher/Admin, I can map the activity based on the curriculum structure, so that I can map the activity in a hierarchical way and find the curriculum code

Tasks:

1. Crawling data from the machine-readable content of Australian Curriculum
2. Parse and breakdown the data to make the hierarchy for searching and filtering
3. 5+ APIs to be done and tested
4. Large data input from external resource

Data Parallel:

A timer was set at the back-end to monitor the update from Australian Curriculum - run at 1am every month



4. Project Reflection

Challenges

- Develop from scratch
- New technical stack to learn
- Huge user stories (Many tasks and subtasks, large coding amount)
- Back-end architecture is complex (involving many interaction with the database and front-end)
- Front-end requires lots of components, styling and testing for data response
- 28+ APIs needs to be developped and tested
- Deployment

Improvements

- Upgrade system UI styling
- More user authentication and credential
- The space for SCoT Term & Other International Curriculum has been reserved for future development
- Optimize General Capability

4. Project Reflection

Handover (By 13th June)

- Prodcut: The Curriculum Mapping System
- Github: source code
- All Documentation: download from Confluence and import to Github
- Handover Guide:
 - How to run the product
 - Complete and incomplete functions
 - Deployment guide with Docker
- Final Presentation Slides
- Two weeks buffer for quality assurance after handover



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