

# JCU App

Creating a mobile JCU student experience

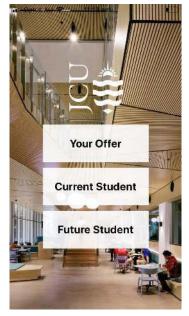


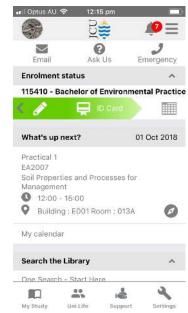
# JCU App

The JCU app gives students access to everything they need for study, support and university life, anywhere, anytime

Available in IOS, Android and web version

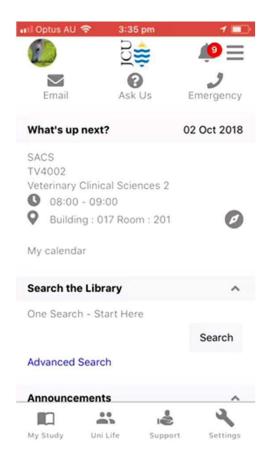
Including a guided workflow through offer acceptance to enrolment and class registration

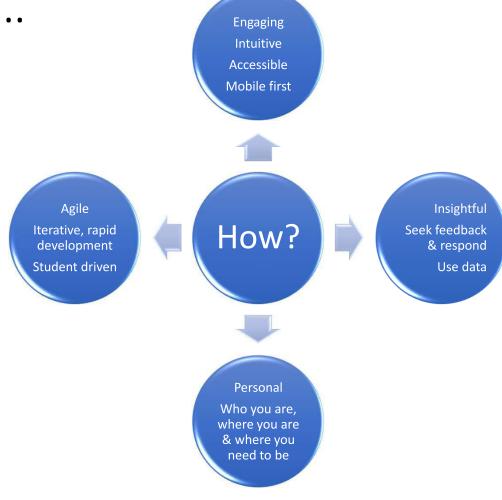






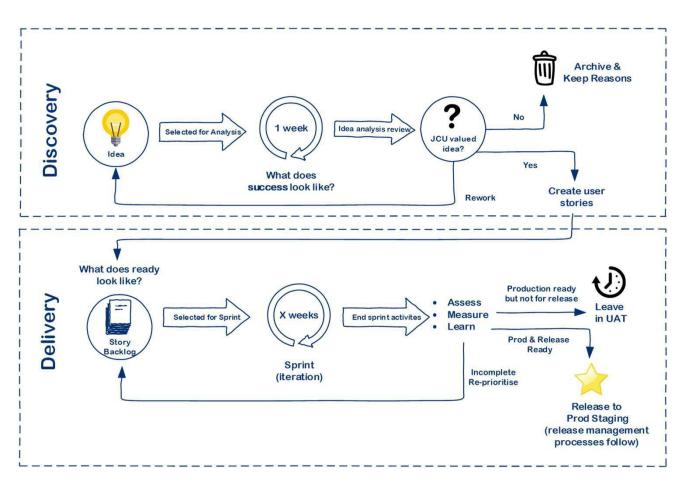
# One JCU experience...







# Ideas to Implementation



- JIRA: sprints & backlog
- Zephyr: test management
- Confluence: as-built documentation

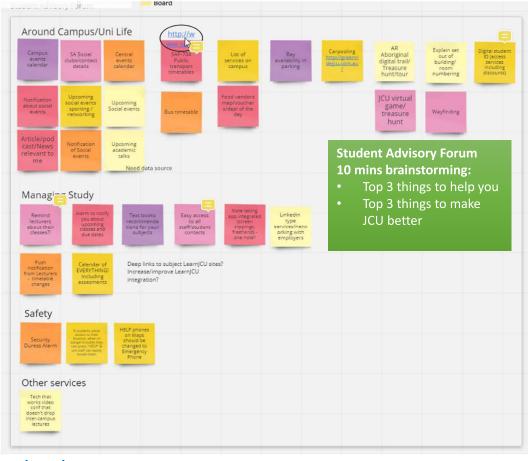
User involvement in UAT & Alpha student group

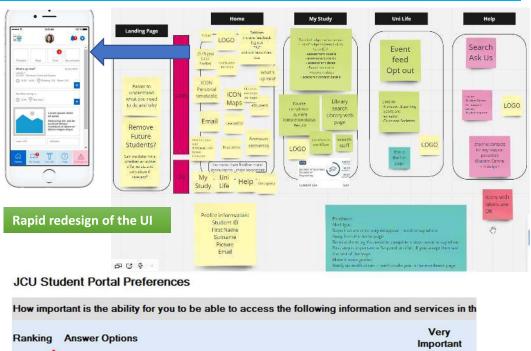
Automation of functional testing is a future goal

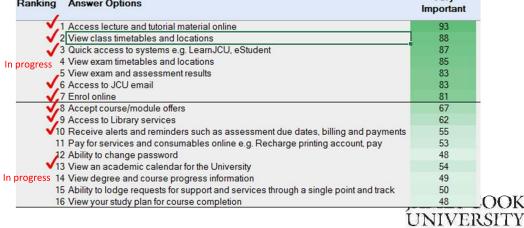


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### No end to the ideas...







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### **Enrolment Workflow**

#### **Business rules for each step:**

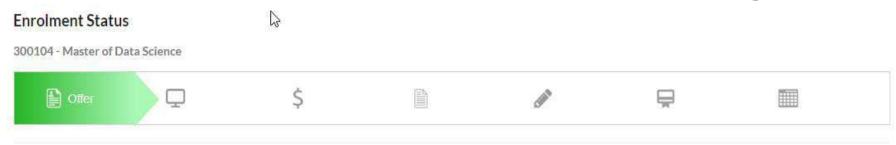
- Is it visible? With variations
- Can you access it? With variations
- When is it completed? With variations
- Can you return to it?

#### **Content for each step:**

- Icon, short heading, long heading
- Step instructions
- Need Help button link to CRM help
- Next Button what action does it complete?
- Action Button deep link to eStudent or web page



## **Enrolment Workflow Technical Challenges**



- Student on-boarding is hard for the student
  - Need a guided workflow to make it easier for the student to follow
- Student App guides students through the process
  - Deep linking to the right screen in Student Management System
  - Student returns to the app after each step
  - Need to determine current step in workflow on return
  - Traditional data pushes not fast enough



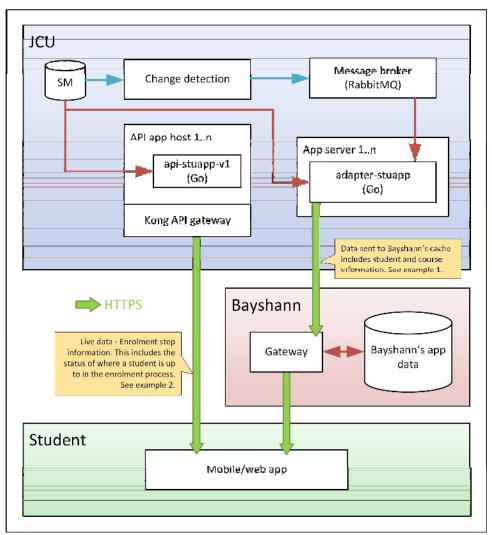
## Student App Integration Requirements

- Slow changing data
  - Basic student details
  - Course information
  - Timetable
- Real-time user interaction with Student Management System
  - SSO to embed eStudent screens
- Fast changing data
  - Enrolment Workflow



# Integration Architecture

- Traditional data push for slow changing data
- SSO to Student Management System (eStudent)
- Real time API to support Enrolment Workflow
  - Secured with OAuth2





# Real-time API Integration

- Always up-to-date data
  - Even a few seconds of delay may result in the student being shown the wrong step to complete next
- Performance is important
  - Integration is "just in time"
  - Slow loading pages is poor user experience
- Failures of underlying system need to be carefully managed
- OAuth2 to authorize access to individual student data



#### **API** Architecture

#### Student App

Web and Mobile apps

#### **API** Gateway

Off-the-shelf API Gateway, verifies OAuth2 tokens and proxies valid requests to the API implementation

#### Student App REST API

JCU built REST API written in Go, handles data transformation

### Student Management Database

System of record for student data

UNIVERSITY

# Questions?

