

# SmartEd



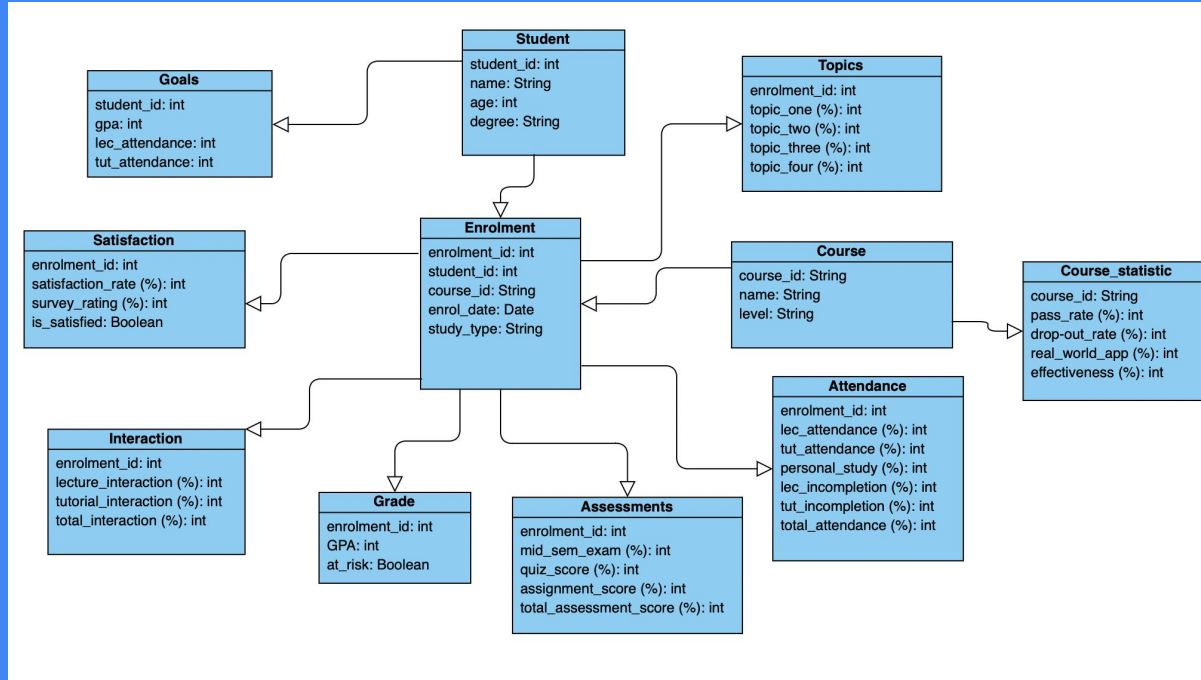
# What is SmartEd?

*Collections of Advantages.*

- *An online system which takes the best features from other learning platforms*
  - *such as Blackboard and CourseEra*
- *Created from the idea of improving the overall digital experience of education*

# What have we developed so far?

- Database schema
- Obtains student metrics
- Combines mentioned metrics with ML models
- A virtual meeting and exam proctoring system



# SmartEd Features

- Student goal setting
  - Obtain relevant metrics to calculate when a student is at risk of failing a course
  - Predicting student's grades
- 
- Evaluate course effectiveness to identify deficiencies related to the course
  - Display personalized dashboards for students to view course progress and grades
- 
- Built in virtual meeting facilities
  - Built in examination proctoring

# SmartEd Interfaces

The screenshot displays the SmartEd Learning Style interface for a course titled "[DECO3800/7380] Design Computing Studio 3 - Proposal (St Lucia), Semester 1, 2020 (DECO38005, 7020, 20590)". The interface is divided into several sections:

- Header:** Includes the University of Queensland logo, the course title, and navigation links for Welcome, Courses, Organisations, and Help.
- Analytics Section:** Displays three key metrics:
  - Current Grade:** 6, with a note "- 0 grades".
  - Current Course Satisfaction:** 80%, with a note "↑ 1.5%".
  - Course Student Rank:** 24th, with a note "↑ 2 places" and a "Hide" link.
- For You Section:** Contains two main recommendations:
  - Topic 4:** A message stating, "You seemed to perform lower in **Topic 4: Key Design Concepts**, you can watch this section of the **Lecture 4** to gain a better understanding:". Below this is a video thumbnail for "DECO3800 BUSINESS RESEARCH METHODS" and a link to "Watch 43:10-49:30 of Lecture 4".
  - Lecturer Document:** A message stating, "The **Lecturer** has posted a new document: **How to Write Your Interim Critique**. 80% of students have found this helpful so far!". Below this is a document thumbnail and a link to "Open How to Write Your Interim Critique".
- Key Insight Report Section:** Contains two insights:
  - "You and 71 others have attended **all the tutorials**".
  - "You need **80% on the Interim Critique** to get a grade of 7".Both insights include a "See full report" link.
- Actionable Insights Section:** Contains three actionable items:
  - "The **week 7 personalised lecture** is ready to be viewed" with a link to "Watch personalised lecture".
  - "Your next assessment is **Interim Critique** due at 10am Friday 22/5/20" with a link to "Submit assessment".
  - "There is **1 new message** from the **Lecturer**" with a link to "Open message".A "See full report" link is also present at the bottom of this section.

# SmartEd Feature Justification

- Useful visualisation of data for users
  - Student goal setting
  - Make decisions based on data about YOU
- Give users trust and dependence
  - Virtual exam proctoring
  - Making online learning a more enriching experience

# Where Did we Start?

- *Studying other Learning Management Systems (LMS)*
- *Taking foundational concepts from the proposal*

# Assumptions

## *Resource-based*

- We have reliable access to our team members
- Our team members are willing to work
- Our team members are not overloaded

## *Schedule-based*

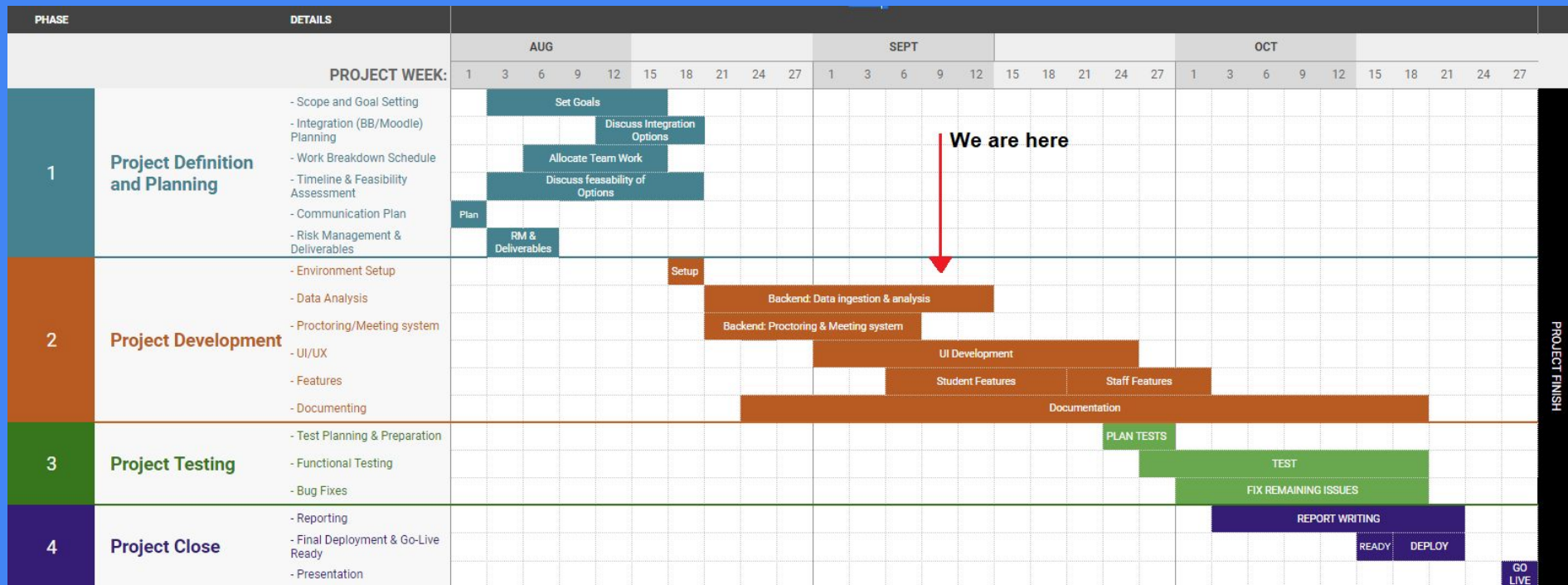
- We will have ample time to fix unforeseen issues
- Team members have the time they need to complete tasks

## *Project Scope-based*

- The scope of the project will not change significantly



# Work Plan Progression



# Changes to our Work Plan

*“Fine, i’ll do it myself” - Thanos*

# Project Burndown & Remaining Goals

## *Database*

- Finalise the database schema
- Get/Create sample data for the database

## *UI/UX*

- Build the interfaces

## *Framework*

- UML diagram
- Continue coding for backend and frontend after finish all the design tasks

## *Future work*

- WebRTC
  - to build up a chat function for the web

Q&A;