



# Curriculum Mapping Tool

Presented By Team 7

# Meet The Team



**Yingyu Wei**



**Ying Liao**



**Yuhao Wang**



**Ruwen Yi**

# Content

1. The Problems . . . . .	Yingyu Wei
2. Solution . . . . .	Yuhao Wang
3. Feasibility . . . . .	Ying Liao
4. Future Scope . . . . .	Ruwen YI
5. Conclusion . . . . .	Ruwen YI



# 1. The Problems



How many steps for him to know

degree structure

relationship  
between courses

curriculum leader

# 1.1 Complex



**1. GO TO DEGREE FINDER, SEARCH THE DEGREE**

The screenshot shows the University of Adelaide's Degree Finder page. At the top, there is a banner with a man working on a computer and the text "Degree Finder" and "Find your degree". Below the banner, there is a grid of icons representing different fields of study: Mental Health and Wellbeing, Music, Nursing, Psychology, Science, Teaching and Education, and Technology (which is circled in red). An arrow points from the "Technology" icon to a list of search results. The results are titled "Bachelor" and include: Bachelor of Computer Science, Bachelor of Computer Science (Advanced), Bachelor of Information Technology, Bachelor of Information Technology - Melbourne Campus, and Bachelor of Technology (Defence Industries). A large number "4" is displayed in a pink circle, indicating the number of matching degrees found.

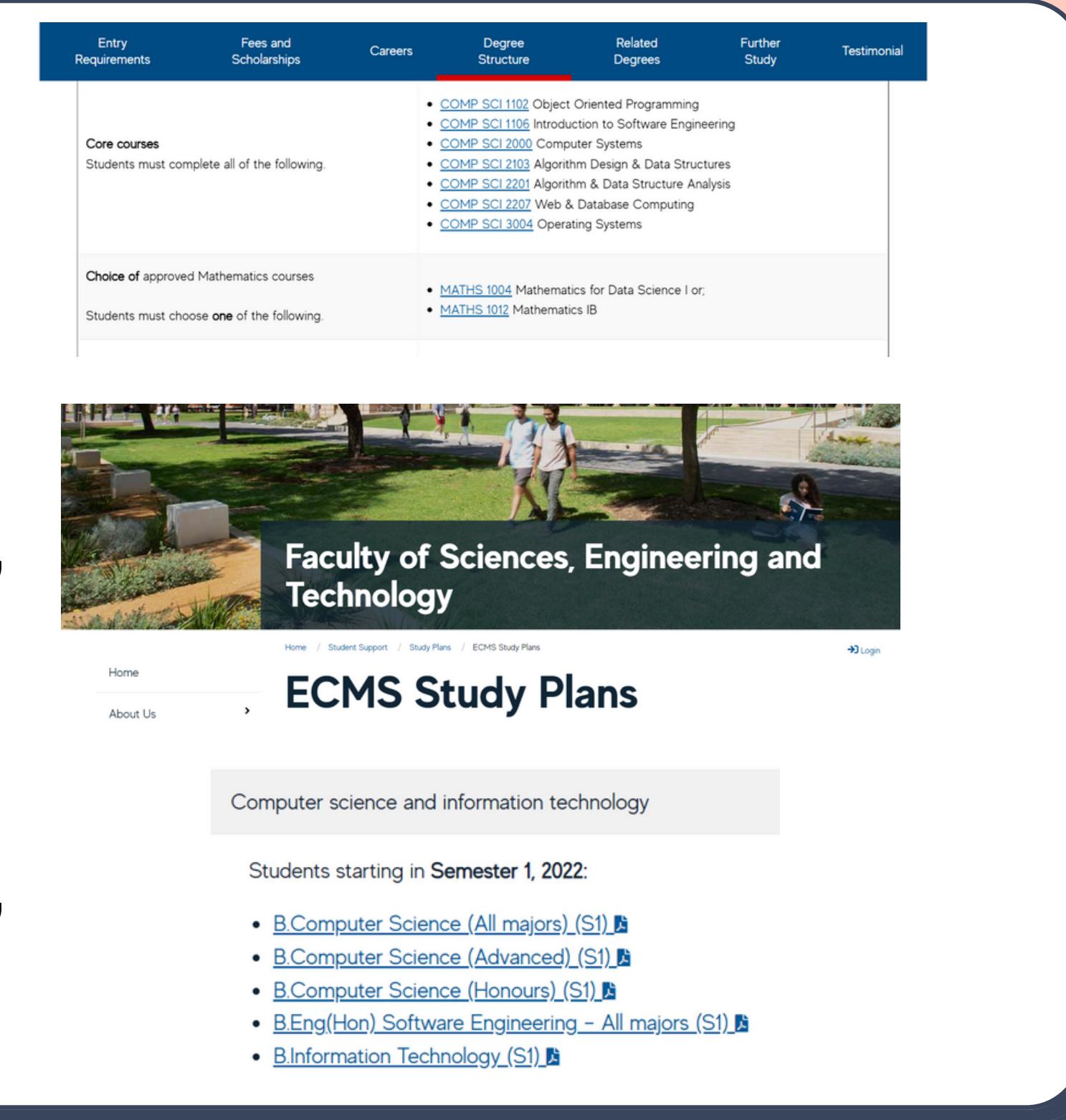
35 matching degrees found

Bachelor

- Bachelor of Computer Science
- Bachelor of Computer Science (Advanced)
- Bachelor of Information Technology
- Bachelor of Information Technology - Melbourne Campus
- Bachelor of Technology (Defence Industries)

**4 TIMES CLICKING**

# 1.1 Complex



Entry Requirements Fees and Scholarships Careers Degree Structure Related Degrees Further Study Testimonial

**Core courses**  
Students must complete all of the following:

- [COMP SCI 1102](#) Object Oriented Programming
- [COMP SCI 1106](#) Introduction to Software Engineering
- [COMP SCI 2000](#) Computer Systems
- [COMP SCI 2103](#) Algorithm Design & Data Structures
- [COMP SCI 2201](#) Algorithm & Data Structure Analysis
- [COMP SCI 2207](#) Web & Database Computing
- [COMP SCI 3004](#) Operating Systems

**Choice of approved Mathematics courses**  
Students must choose **one** of the following:

- [MATHS 1004](#) Mathematics for Data Science I or,
- [MATHS 1012](#) Mathematics IB

 Faculty of Sciences, Engineering and Technology

Home / Student Support / Study Plans / ECMS Study Plans [Login](#)

## ECMS Study Plans

Computer science and information technology

Students starting in Semester 1, 2022:

- [B.Computer Science \(All majors\) \(S1\)](#)
- [B.Computer Science \(Advanced\) \(S1\)](#)
- [B.Computer Science \(Honours\) \(S1\)](#)
- [B.Eng\(Hon\) Software Engineering – All majors \(S1\)](#)
- [B.Information Technology \(S1\)](#)

2. CONFIRM ALL CORE AND ELECTIVE COURSES

3. FIND OUT STUDY PLAN OF THIS DEGREE



7 TIMES CLICKING

# 1.1 Complex

The screenshot shows the '2022 Study Plan – Semester 1 Start' for the 'Bachelor of Computer Science'. It displays three tables: 'Level I Mathematical Sciences Course Table', 'Professional Elective Table', and 'Computer Science Elective Table'. The 'Level I Mathematical Sciences Course Table' includes courses like MATHS 1004 Mathematics for Data Science I and MATHS 1012 Mathematics IB. The 'Professional Elective Table' includes ENTRP 3901 Tech eChallenge and MATHS 3025 Professional Practice III.

The screenshot shows the 'University Course Planner' interface. It displays a search result for 'COMP SCI 7315 Computer Vision'. The search form includes fields for Course Title, Subject Area, and Catalogue Number, along with a 'Search' button.

4. CLICK EVERY COURSES TO CONFIRM THE RELATIONSHIPS



27 TIMES CLICKING

The screenshot shows a browser window with a dark blue header. The tabs listed are: 'Bachelor of Computer Science | Degree Finder', 'ECMS Study Plans | Faculty of Sciences, Engineering', 'b-comp-sci-s1-2022.pdf', 'Find 2022 Courses: Results', 'COMP SCI 3308 - Cybersecurity Fundamentals', 'Find 2022 Courses: Results', 'COMP SCI 3001 - Computer Networks & Application', 'Find 2022 Courses: Results', 'COMP SCI 1106 - Introduction to Software Enginee', 'Find 2022 Courses: Results', 'COMP SCI 2000 - Computer Systems', 'Find 2022 Courses: Results', 'COMP SCI 2103 - Algorithm Design & Data Structu', 'Find 2022 Courses: Results', and 'COMP SCI 2201 - Algorithm & Data Structure Analy'.



20+ OPEN TABS

## 1.2 Text-only

What is COMP SCI 7103?

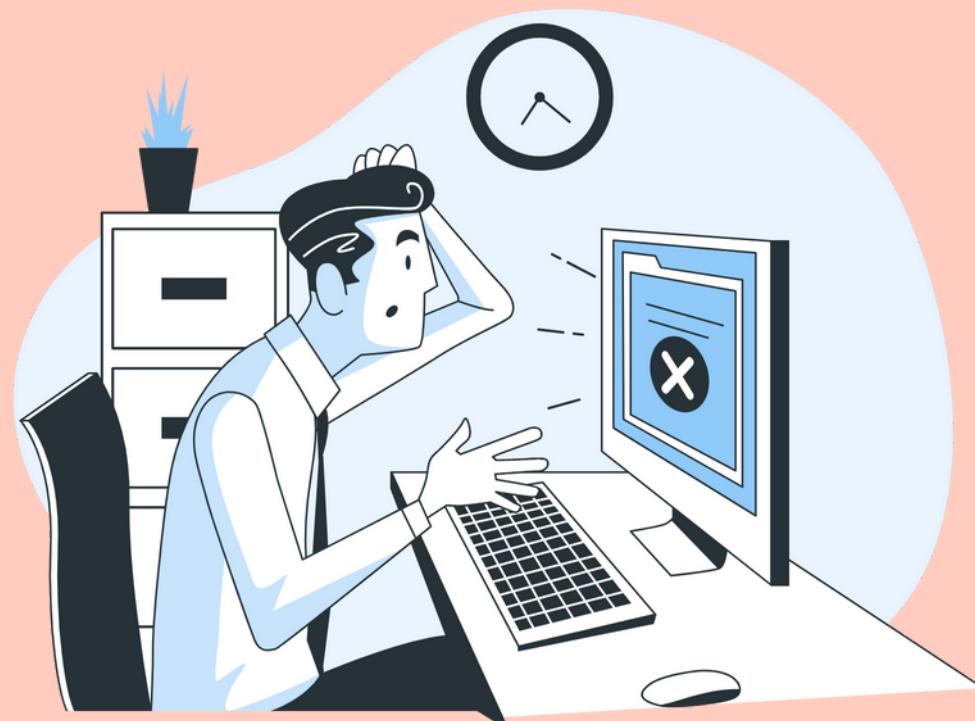


### COMP SCI 7076 - Distributed Systems

[Hide Course Details](#)

<b>Career:</b>	Postgraduate Coursework
<b>Units:</b>	3
<b>Term:</b>	Semester 2
<b>Campus:</b>	North Terrace
<b>Contact:</b>	Up to 2.5 hours per week
<b>Restriction:</b>	Master of Computing and Innovation, Master Data Science students only
<b>Available for Study Abroad and Exchange:</b>	Yes
<b>Available for Non-Award Study:</b>	No
<b>Pre-Requisite:</b>	COMP SCI 7103, COMP SCI 7202, COMP SCI 7202B, COMP SCI 7208 or COMP SCI 7211
<b>Assumed Knowledge:</b>	COMP SCI 7081 & COMP SCI 7082 or COMP SCI 7201
<b>Assessment:</b>	Written exam and/or assignments
<b>Syllabus:</b>	A selection of topics from the following: the challenges faced in constructing client/server software: partial system failures, multiple address spaces, absence of a single clock, latency of communication, heterogeneity, absence of a trusted operating system, system management, binding and naming. Techniques for meeting these challenges: RPC and middleware, naming and directory services, distributed transaction processing, 'thin' clients, data replication, cryptographic security, mobile code. Introduction to Java RMI.

## 1.3 Unstable



The screenshot shows a 404 error page from a university's website. At the top, there is a banner image of a campus lawn with students walking and sitting. Below the banner, the text "Faculty of Sciences, Engineering and Technology" is displayed in large white letters. The main content area has a white background. On the left, there is a vertical navigation menu with links: Home, About Us, Study With Us, Student Support, and Careers & Employability. To the right of the menu, the error message "Page not found" is prominently displayed in large, bold, dark blue text. Below this message, a smaller text states: "The page may have moved, temporarily unavailable, or the address may not be correct." At the bottom right of the error message area, there is a red button with the text "Visit the University home page".

## 1.4 Summary of problems

The current websites are:

complex

text only

unstable



# 2 Solution

What is our product?

## 2.1 A web application: curriculum mapping tool



**SAVE TIME**

Simple and fast

**VISUALIZATION**

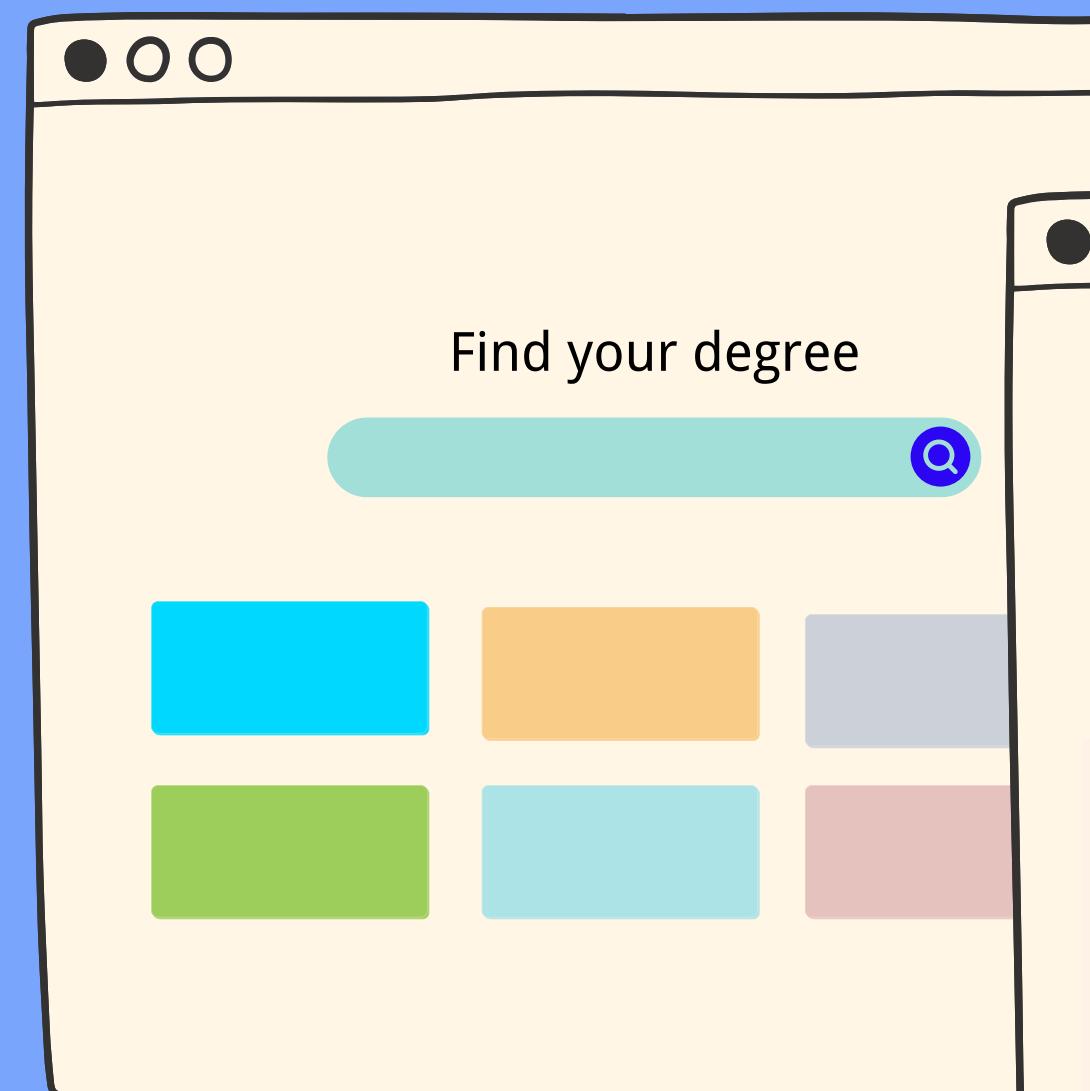
Show degree structure  
and course relations

**STABLE**

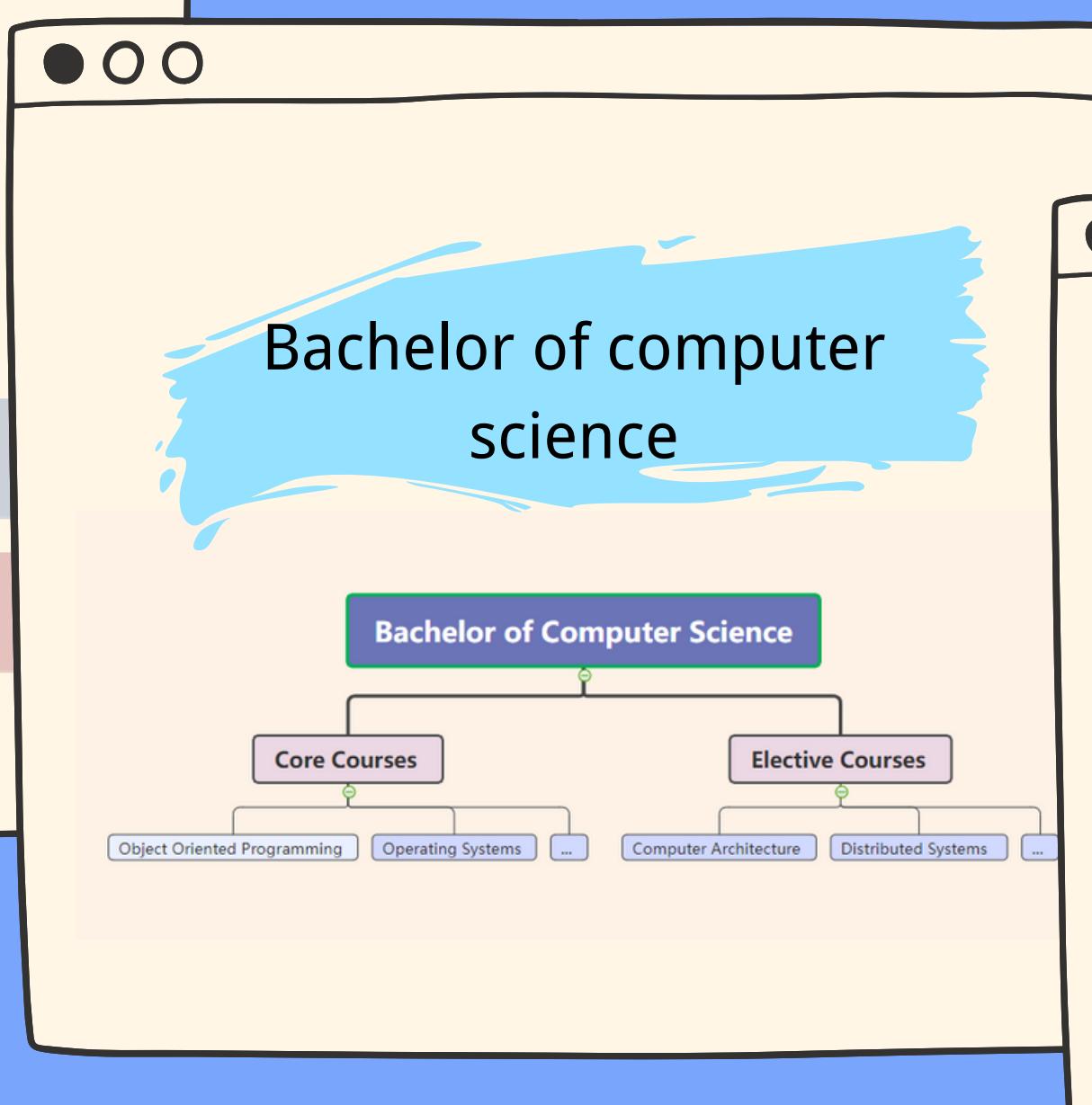
Cloud service  
less break down

## 2.2 Solve in 3 steps

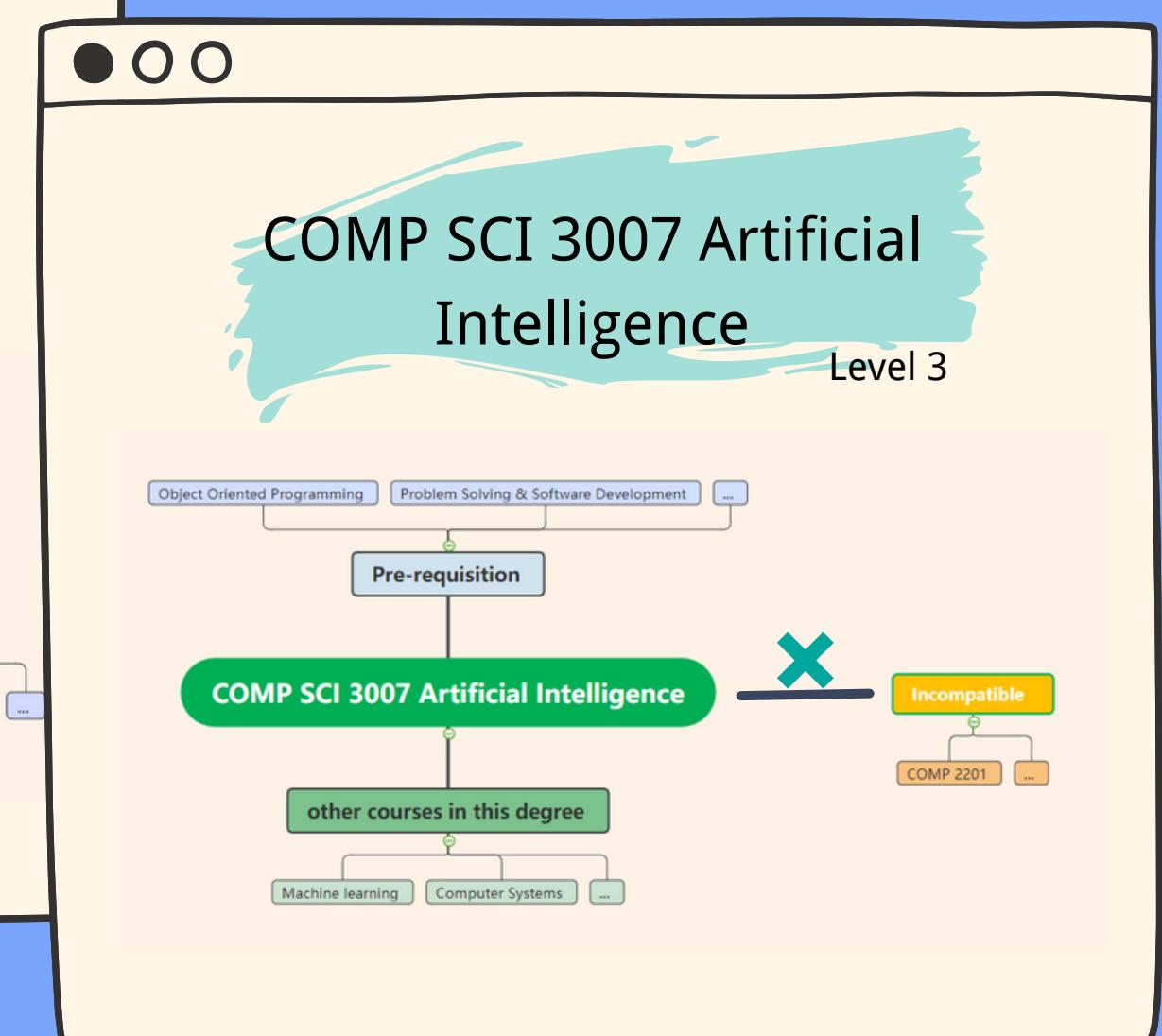
Step 1: Search degrees



Step 2: Show degree structure



Step 3: Show course relationships



## 2.3 Stability

99.9% uptime



Backup server and database



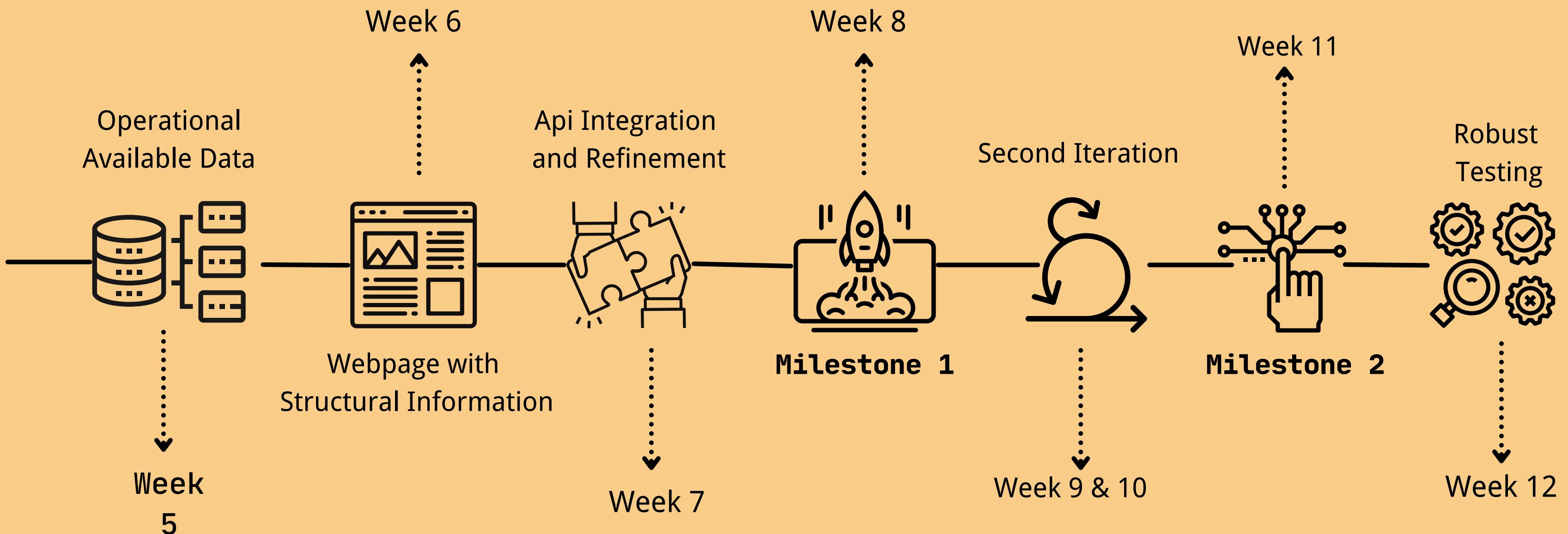
## 2.4 Competitive Advantages

Tool	Process	User-friendly	Visualization	Stability	Customization
Curriculum Mapping Tool	3 steps	✓	✓	✓	✓
Degree Finder + Study Plan	> 20 steps	-	-	-	-

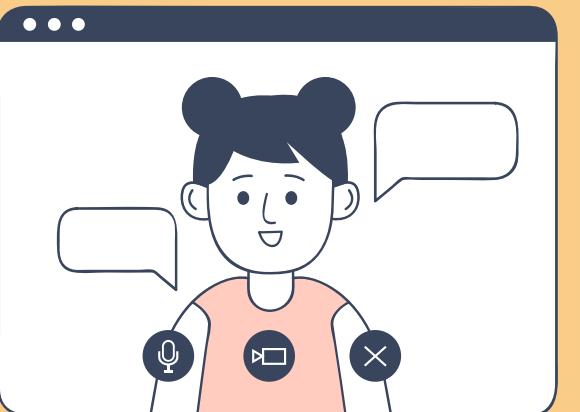
### **3. How**

**we are going to deliver this project?**

### 3.1 Project Timeline



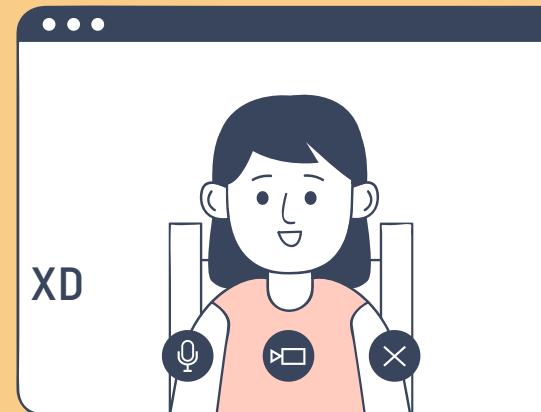
## 3.2 Our Team



Yingyu Wei

### Webpage designer

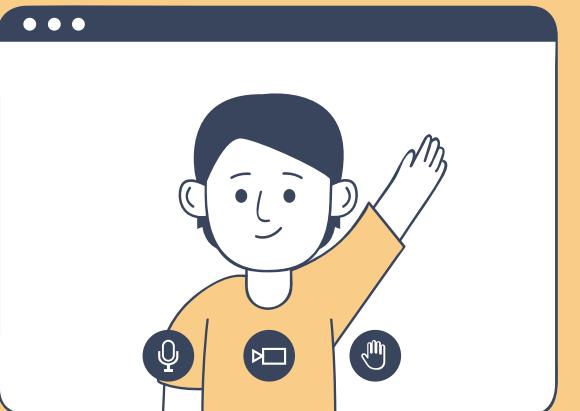
- Passionate about web designing
- Skill: Html, CSS & JavaScript, Adobe XD



Ruwen Yi

### Back-end

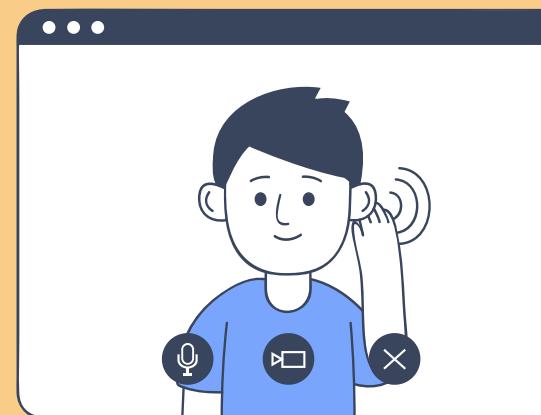
- Good at Node.js, Express and JavaScript



Ying Liao

### UI & UX

- Passionate about user experience
- Skill: Html, CSS & JavaScript

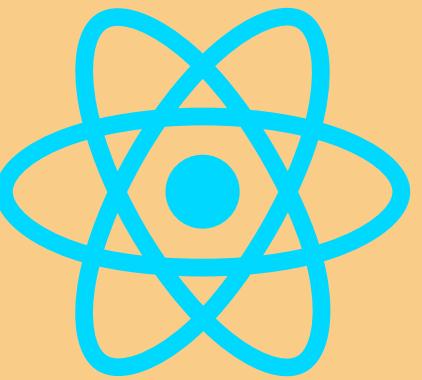


Yuhao Wang

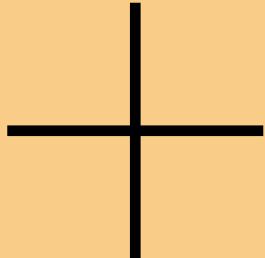
### Database & Back-end

- Skill: Mysql, Node.js

### 3.3 Feasibility



Industry standard  
Highly modularized

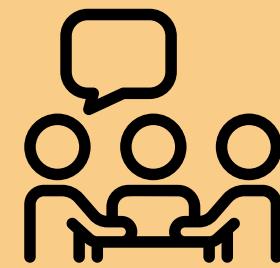
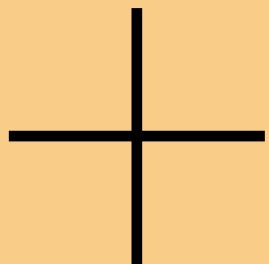


Public accessible  
Stored in cloud

### 3.3 Feasibility



Agile approach



Client Meeting

## 3.4 Feasibility

- Practical Project Delivery Plan
- Competent Development Team
- Technologically Feasible
- Effective Internal Organization

# **4. Future Scope**

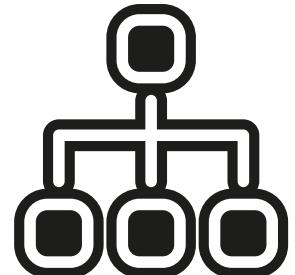
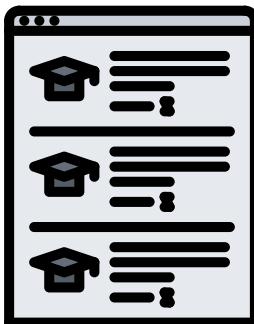
**Our project can be extended to...**

# Future Scope

## 1. Expand Website Features

### Course Management system

- *modify course*
- *adjust degree structure*



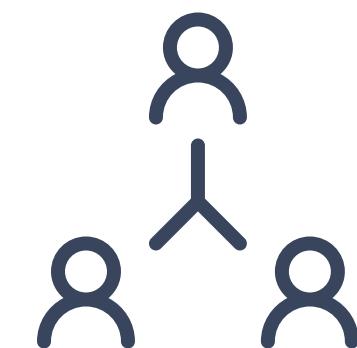
### Course Evaluation system

- *evaluate course quality with student data*



# Future Scope

## 2. Grow Market Size



- More Degrees & Subject Areas
- More Universities
- More Curriculum leaders

# 5. Conclusion

# Curriculum Mapping Tool

*Faster, Stabler;*

*Interface & Visualization;*

*Feasible, Extendable.*



# Thank You

