# C240 FA Proposal

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*Submission Deadline:* ***June 5, Thursday, 23:59 (End of Week 7)****:* [*Submit using* ***this*** *link*](https://forms.cloud.microsoft/r/YHVUYLyBc9)

**Project Title:** StudyMate

**Team Name:** Penguin

**Team Members (Name and Student Number):**

|  |  |  |
| --- | --- | --- |
| **Role** | **Student Name** | **Student #** |
| **Team Captain** | Keshini Kimbery Appadurai | 23009644 |
| **Team member** | Neo Lexuan Danica | 23009872 |
| **Team member** | Lim Pei Xuan | 23010135 |
| **Team member** | Govindaraj Durkadevi | 23001852 |
| **Team member** | Cheng Geok Teng, Adel | 23012428 |

## 1. Problem and Audience

* **Problem Statement**  
  Polytechnic students frequently find it challenging to handle their academic workload, particularly during peak assessment periods. Many experiences burnout, procrastination, and anxiety resulting from poor time management, unclear task breakdowns, and a lack of motivation. Traditional academic support is often unavailable when students need it the most.
* **Target Audience**  
  We target polytechnic students from Year 2 and 3 as it is critical for them to boost their GPA. Specifically, those who need help adjusting to self-directed learning. These users are usually tech-savvy, often on mobile, prefer quick, on-demand support.

## 2. AI Solution

* **Why Use AI?**  
  AI offers immediate, personalized academic support for student, especially during times when human help is unavailable.It delivers guidance in a non-judgmental manner, helps retrieve useful academic materials, and encourages productive study habits.
* **Ethical considerations**
  + No personal data is collected or stored
  + The tool is designed to support, not replace educators.
  + Promote students' mental well-being and academic growth
* **Proposed Tools and Techniques (These may change**

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| --- | --- | --- |
| **Tool** | **Purpose** | **Why We Chose It** |
| **Botpress / Flowise** | To build the chatbot and create modular flows | **No-code/low-code** friendly, great for designing chatbot conversations with visual flows.  Supports integration with APIs and RAG setups.  Ideal for building logic-based interactions like Pomodoro timers, reminders, and mental health check-ins. |
| **Google AI Studio** | To summarise study notes, tips, or rubrics using LLMs (RAG optional) | Great for **text generation** and **summarization**, helping students quickly understand long notes.  Can handle RAG (Retrieval-Augmented Generation) to pull content from external sources like PDFs or doc files.  Free and easy to use for student-level projects. |
| **Canva / Adobe Firefly** | To create visuals for branding, infographics, and promotional content | Canva is super intuitive and lets us design posters, carousels, and app mockups fast.  Firefly generates unique visuals using text prompts — great for soothing mental health content or StudyMate’s aesthetic.  Perfect for making Gen Z–friendly social media promos. |
| **GitHub Copilot** | To assist with logic scripting and code testing | Acts like a coding buddy when we need to customise scripts or troubleshoot Flowise/Botpress logic.  Speeds up debugging and helps us write clean, efficient code.  Useful for more technical roles in the team without needing to code everything from scratch. |

## 3. Project Objectives

* **Core Goals**
* Provide instant, accurate answers to study-related queries through Smart Q&A
* Help students manage time effectively using a Pomodoro-based or hourly block study planner
* Support mental well-being with motivational messages and mental health check-ins
* Offer personalized deadline reminders to stay on track
* Ensure an engaging and easy-to-use experience via a chatbot-style interface
* **Expected Value/Impact**
* Improved academic performance through better planning and fast access to relevant information
* Reduced stress and burnout by encouraging balanced study habits and mental health awareness
* Increased motivation and consistency with reminders, encouraging messages and task tracking
* Greater accessibility to learning resources, svaing time spent on searching and intuitive

## 4. Team Roles and Contribution Plan

|  |  |  |  |
| --- | --- | --- | --- |
| **Team Member** | **Role** | **Main Responsibilities** | **Tools Used** |
| Keshini | AI Builder | - Design chatbot logic- Create prompt templates- Test flows and interactions | Flowise, GitHub Copilot |
| Adel | Designer | - Build StudyMate branding- Create UI mockups & explainer graphics | Canva, Adobe Firefly |
| Durka | Data Curator | - Collect and clean study notes- Prepare inputs for summarisation/RAG- Test knowledge responses | Google AI Studio, Docs, Notion |
| Danica | Promo Lead | - Develop social media visuals & short-form content- Lead TikTok-style walkthrough video | Canva, Firefly, CapCut (or similar) |
| Pei xuan | Writer / QA | - Write final report sections- Build and QA slide deck- Document testing insights | Word, PowerPoint, Canva |

## 5. Endorsement of Proposal and Responsibilities

|  |  |
| --- | --- |
| Endorsed By: | Signature: |
| *I, Pei Xuan, have reviewed this proposal and agree with the project plan, including my role and responsibilities as stated above. I believe there is a fair and equitable distribution of planned contributions* | Pei Xuan |
| *I,* Keshini*, have reviewed this proposal and agree with the project plan, including my role and responsibilities as stated above. I believe there is a fair and equitable distribution of planned contributions* | Keshini |
| *I,* Danica*, have reviewed this proposal and agree with the project plan, including my role and responsibilities as stated above. I believe there is a fair and equitable distribution of planned contributions* | Danica |
| *I,* Adele*, have reviewed this proposal and agree with the project plan, including my role and responsibilities as stated above. I believe there is a fair and equitable distribution of planned contributions* | Adele |
| *I,* Durkadevi*, have reviewed this proposal and agree with the project plan, including my role and responsibilities as stated above. I believe there is a fair and equitable distribution of planned contributions* | Durkadevi |

**Flexibility and Change Management**

We recognise that project work can evolve. To support creativity and adaptability, the following changes are permitted within set guidelines:

* **Changes Allowed WITH Lecturer Approval:**  
  You must seek approval before changing:
  1. Problem and Target Audience
  2. Proposed AI Solution and Project Objectives
* **Changes Allowed Without Approval:**
  1. You may change your **planned tools or techniques** at any time.
  2. If using **tools not taught in this module**, lecturer approval is required first.
  3. You may also revise **individual roles and contributions**, provided **the entire team agrees** to the change.
* **Recording Changes:**  
  All major changes must be noted in your **Final Report** and **Presentation Slides**, along with:
  1. A brief explanation of what was changed
  2. The reason/motivation behind the change
  3. (If relevant) Evidence of team agreement

⚠️ Unexplained changes may impact marks for planning, clarity, or collaboration.

**Important Notes:**

* This proposal contributes **10% of your FA grade only**. (team-based).
* Use taught tools where possible. Get lecturer approval for external tools.
* You may reformat this template but **must retain all key sections**.
* Keep your proposal professional, concise (approx. 2–3 pages), and ready for feedback.