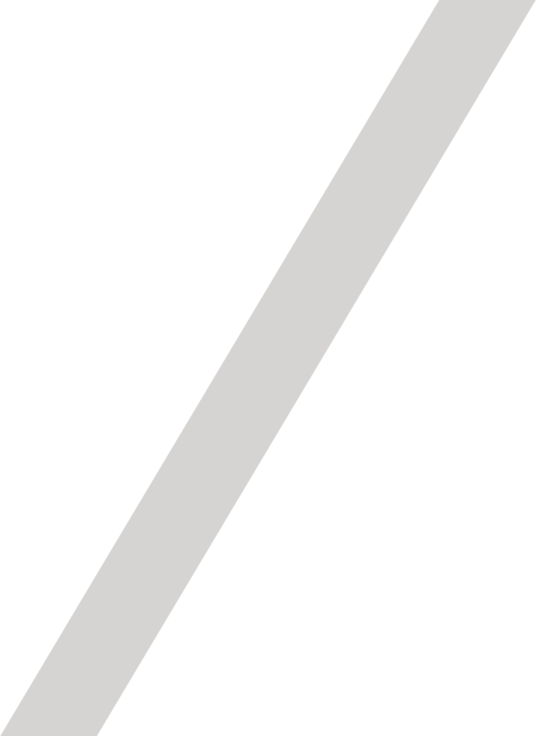
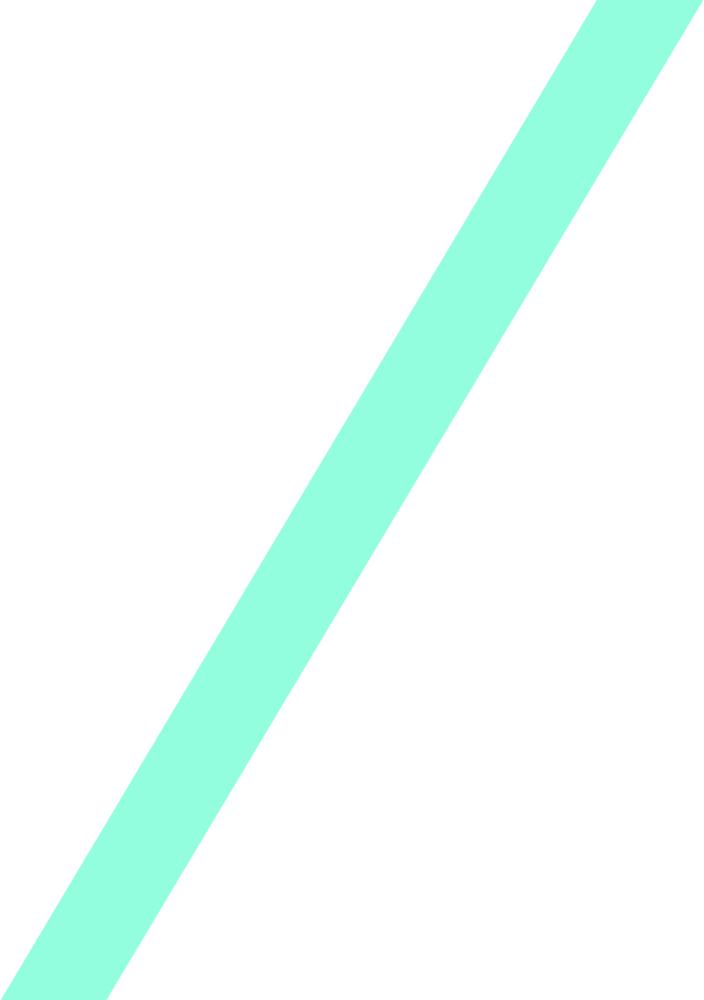
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Sprint3

Cyber Security - 2025

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| Introduction |

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| Purpose  Sprint 3 aimed to develop a working prototype of our application, showcasing progress on our technical deliverables and providing proof of concept for our idea. This sprint focused on implementing key functionalities, including designing and implementing the database, creating static and dynamic content using PUG, and ensuring proper integration with the backend. Additionally, our team collaborated to track progress using a task board and maintained version control through GitHub. |
| Deliverables  The following details are deliverables for this sprint 3:   * The user stories we implemented in our sprint, accompanied by the relevant wireframes, activity diagrams and screenshots of the implementation * Screenshots of the GitHub repo + link * Screenshots of the task board + link |
| User Account User Stories  * As a new user, I want to sign up for an account by providing my email, password, interests, hobbies, academic information, and available time frames to match suitable study buddies based on shared interests and compatible schedules. * As a user, I want to update my profile to add or change my interests, courses, and free time windows to keep my buddy suggestions relevant and accurate. * As a user, I want to delete my profile if I no longer wish to use the app, ensuring my information is removed from the platform.   Event Scheduling   * As a user, I want to view a calendar of study events to choose which one to join based on my schedule and study needs. * As a user, I want to join an event directly from the calendar to schedule my study sessions with others effectively. * As a user, I want to see who else is attending the events to identify potential study partners and prepare for collaborative sessions. * As a user, I want to connect with other attendees from the event page to discuss and coordinate study topics or sessions beforehand. * As a user, I want to create study events in the app to invite others to join study sessions. * As a user, I want to update the details of an event I created in case there are changes in timing, location, or other important aspects.   Messaging System & Searching |

* As a user, I want to search for study buddies based on criteria like interests, study modules, and availability to find the most compatible partners for my study sessions.
* As a user, I want to send messages to my study buddies within the app to discuss study topics, arrange meet-ups, or share quick updates easily.
* As a user, I want to receive messages from other users within the app to stay connected and responsive to my study group's needs.

Personal Dashboard

* As a user, I want a dashboard that shows a countdown to my upcoming events and a to-do list to manage my study schedule efficiently.
* As a user, I want to receive notifications about new study events, messages, and buddy suggestions to stay informed about relevant activities and opportunities.
* As a user, I want to easily navigate through the app’s features, such as calendar, messaging, and buddy search, so I can use the app more effectively without needing assistance.

Entity-Relationship Diagram (ERD)

# Database Design

A computer screen shot of a diagram

AI-generated content may be incorrect.

The analysis of the database structure and the relationships between its components:

1. Users Table:

* The system stores user information, including ID, email, password, full name, and personal details such as interests, hobbies, and academic background. It is connected to several other tables, including UserCourses, BuddyRequests, Events, and Notifications. These relationships enable functionalities like course enrolment, sending friend requests, participating in events, and managing user notifications.

1. Interests and UserInterests Tables:

* Interests table contains a list of possible interests with an ID and name.
* UserInterests is a junction table that links users to their interests, allowing for many-to-many relationships between users and interests.

1. Courses Table:

* It contains courses that users can enrol in.
* UserCourses serves as a junction table to link users with the courses they are taking, and it includes an attribute to mark a course as Primary.

1. Events, EventParticipants Tables:

* Events table stores information about events, including title, description, date, time, and location.
* EventParticipants is a junction table that links users to the events they participate in, showcasing a many-to-many relationship.

1. Notifications Table:

* Manages notifications for users, with each record linking back to the Users table and including details about the notification message and timestamp.

1. BuddyRequests Table:

* Manages friend or buddy requests between users, indicating who sent the request and who received it, along with the request's status (pending, accepted, rejected).

1. Messages Table:

* It handles user messaging with fields for sender, receiver, message content, and timestamps.

Database Screenshots

A screenshot of a computer

AI-generated content may be incorrect.

# Wireframes

# GitHub Repo

# Task Board

Link: [Backlog · @Epsilon-byte's Scholar's United](https://github.com/users/Epsilon-byte/projects/2)

A screenshot of a computer

AI-generated content may be incorrect.