

Task 1 Planning

Mobile Application Development

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5.2

Description of application

The application is intended for educational use. Its main goal is to enhance the students' learning experience and support their academic progress by providing the best possible user experience.

Target Audience

The application is primarily designed for:

- Students
- Teachers/lecturers
- Parents/guardians

This audience includes users of different ages and a variety of technical abilities. Therefore, this application will feature a user-friendly interface with easy learnability, consistency, and minimal clicks to complete tasks.

Goal of the application

The goal of this application is to make school life simpler and smarter by connecting students, teachers, parents, and administrators through one easy-to-use platform with -

- Innovative design
- Accessible for everyone
- Easy communication between teachers, students, parents, and administration
- Students and parents (for young students) can see attendance and students' records
- Upload/download files
- A timetable that can be used as a personal calendar
- Attendance
- Different languages (For future)

Problems and Challenges the Application Solves

This application solves problems such as –

- Communication/group discussion
- Tracking the students' records and academic progress
- Prompt notifications
- Submitting assignments from anywhere
- All-in-one calendar
- Accessibility Challenges, including adding alt text, colour contrast, and ease of navigation for all users
- Limited Parental Involvement by giving direct access to information about their children's academic records

Persona 1



Conrad - creative

Age: 40

Marital status: Single father

Occupation: Designer

Location: Malta

Income: € 60,000 per year

Bio

Conrad is a 40-year-old designer based in Malta. As a single father, he balances his professional life with raising his young daughter, which often requires careful time management. His career revolves around creativity, visual design, and innovation, and he is passionate about producing high-quality work that stands out.

Conrad is good with technology and likes using tools that make his work and life more organised and efficient. He enjoys apps that help him communicate and collaborate easily. Since he has a busy lifestyle, he prefers systems that are simple, attractive, and easy to use. When it comes to his child's education, Conrad wants to stay involved and informed, but he doesn't want to waste time looking for information.

Pain points

- Has limited time to attend meetings or check progress reports in person.
- Worries about missing important deadlines or school events because of inconsistent notifications.

Needs

- Prompt notifications about his child's grades, attendance, and upcoming activities.
- A clean, user-friendly interface that fits into his busy lifestyle.
- Secure access to his child's records and teacher communication channels.

Ideal experience

- Conrad wants a single, easy-to-use app that keeps him updated on his child's progress in real time. He values a clean, visually appealing design that works smoothly by simplifying communication with teachers and accessing school information.

Persona 2



Jade - perfectionist

Age: 18

Marital status: Single

Occupation: student

Location: Malta

Income: € 2000 per year

Bio

Jade is an 18-year-old student from Malta who is currently doing an interesting course in photography. She is ambitious and hard-working and strives for excellence in everything she does. Known among her classmates for being organised and a perfectionist, Jade always aims to achieve top grades and takes pride in submitting her work on time and at a high standard.

She uses digital tools such as calendars, note-taking apps, and study planners to manage her workload. However, she often finds it frustrating when school information is spread across different platforms or when communication with teachers takes too long. These challenges can cause her unnecessary stress and make it difficult to maintain her usual level of organisation.

Pain points

- Finds it stressful when school information is scattered or unclear.
- Dislikes apps that are poorly designed or difficult to use.
- Wastes time searching for assignments, grades, or schedules in different places.

Needs

- Jade needs a good calendar where she can put all her appointments, timetable, and assignment deadlines.
- She wants to use the mobile application flawlessly otherwise she gets stressed.

Ideal experience

- Jade prefers a well-organised mobile application with a clear layout where she can easily view her timetable, assignments, and deadlines all in one place.
- The application must have a smooth and user-friendly interface.

Persona 3



Rita- likes her job

Age: 55

Marital status: Married

Occupation: Lecturer

Location: Malta

Income: € 50,000 per year

Bio

Rita is a 55-year-old lecturer who has been teaching for over 25 years. She is passionate about her profession and helping students achieve their full potential. Rita enjoys preparing engaging lessons and building strong connections with her students. Although she is experienced and confident in her work, she sometimes finds it challenging to keep up with the school's new technology and digital systems.

Rita is organised and values structure but prefers straightforward tools that don't require too much technical setup or constant updates. She uses her laptop regularly for grading, preparing materials, and communicating with students, but she appreciates applications that save her time and reduce paperwork. For Rita, technology should make her things easier and not more complicated.

Pain points

- Feels frustrated by how much time it takes to manually insert student results and comments.
- Finds it stressful when digital platforms are slow, confusing, or require multiple steps to complete simple tasks.

Needs

- Reliable performance with minimal technical issues or downtime.
- A fast, efficient system for recording grades and writing comments in one place.

Ideal experience

- Rita wants a simple and reliable app that makes it easy for her to manage grading, attendance, and communication. She prefers a clean and straightforward design that helps her work faster without wasting time. The app should let her enter results and feedback easily so she can spend more time teaching and connecting with her students.

Market Research

Classter (Android 3 /5 rating & IOS 2 /5 rating)

The Classter application provides users with the flexibility to communicate with each other, receive notifications, and stay updated with the academic calendar. The application's purpose is to be synchronised with the website.

Features for each specific user type.

Students

- Communicate directly with teachers and school staff for help with homework, exams, or assignments.
- Receive announcements about school trips, events, or emergencies.
- Access marks and monitor academic performance.
- Track attendance to ensure compliance with school requirements.
- Check the calendar for upcoming exams, project deadlines, and other important dates.

Teachers

- Stay connected with students and parents through email or internal messaging.
- Collaborate with colleagues, including teachers, assistants, staff, and administrators.
- Stay informed about institutional activities and events through notifications.
- Receive reminders for pending tasks such as marking and assessments.
- Check the calendar for upcoming exams, staff meetings, and student or parent meetings.
- Record student attendance, including absences, tardiness, and presence in your classes.

Parents

- Access all communications with school administrators and children's teachers.
- Stay informed through notifications about events, exams, school trips, and more.
- Track your children's academic performance anytime, anywhere.
- Monitor attendance and homework remotely.
- Use the calendar to stay organised and keep track of your children's school responsibilities.

Positive notes

- Information about school updates is given by the notification box (Figure 1).
- The subjects are shown very clearly, and when clicked on, they open the information page about each subject (Figures 2 and 5).
- The assignment page is very useful since the students can easily upload files in a friendly user interface (Figure 3).
- **Positive reviews** – Some users praise the app for having a personal dashboard, giving real-time updates, and sending quick notifications. It also makes it easy for students, parents, and teachers to stay in touch. Many users also say it's simple to use and feels safe.

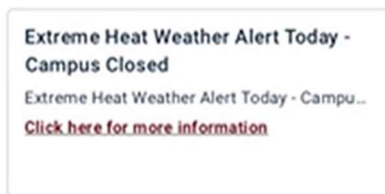


Figure 1 Notifications

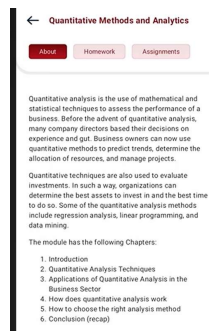


Figure 2 Subject description

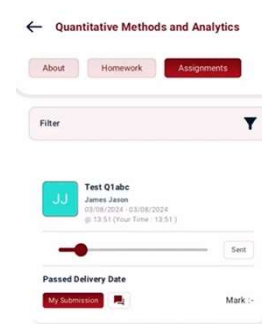


Figure 3 Assignment submission

Negative notes

- On the calendar, there is a timetable, but students cannot add events to the calendar, such as other appointments away from school (Figure 4).
- When clicking on the Course Enrolment icon, the course title is not shown (Figure 5).
- It will be a good idea if students can see the Brief from the same page of the assignments (Figure 3).
- The Plus icon (+) from the navigation bar is confusing since it is supposed to mean "Send Message" (Figure 6).
- **Negative reviews** - Recent reviews for the Classter mobile app indicate a negative user experience, with many users reporting that the app is not working, buggy, and difficult to use.

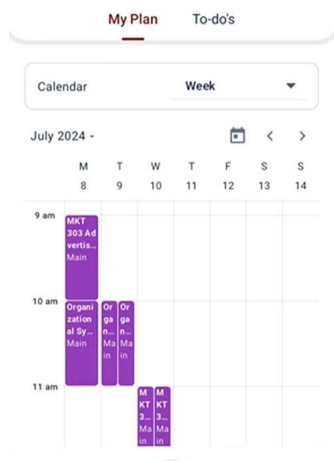


Figure 4 Calendar

Figure 5 Enrolment page

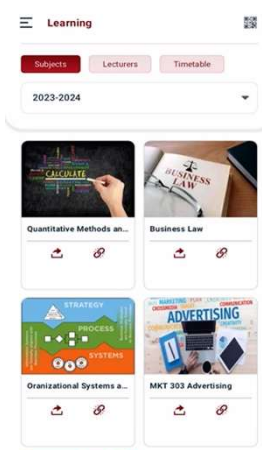


Figure 6 Navigation Bar

Microsoft Teams (Android 4.6 /5 rating & IOS 4.8 /5 rating)

Microsoft Teams is a cloud-based collaboration platform that combines chat, video meetings, file sharing, and application integration into a single workspace. Although Microsoft Teams is not a Learning Management System (LMS), it can work well with other LMS platforms and apps to support online lessons, discussions, and teamwork. It includes features like Assignments and Grades, but it doesn't have the advanced tools of a full LMS, such as tracking student progress.

Feature Comparison

Feature	Windows	iOS	Android
Meeting Controls	Includes the most advanced meeting tools such as multiple participant views, enhanced host controls, and built-in background options.	Offers a simplified interface with standard meeting functions similar to a desktop.	Provides streamlined meeting controls that cover all essential features for mobile use.
Screen Sharing	Supports full-screen and specific application sharing without restrictions.	Enables complete screen sharing functionality.	Allows screen sharing, though it may require compatible browsers like Chrome or Edge, depending on the device.
Virtual Backgrounds	Provides both built-in and customizable background options.	Supports virtual backgrounds on devices running iOS 12 or later.	Offers built-in and custom virtual background support.
Accessibility	Generally, more user-friendly on larger screens and supports full keyboard input.	Integrates smoothly with iPhone accessibility features.	It may have more limitations and less consistent accessibility integration compared to iOS.
Performance	Optimised for desktop performance, multitasking, and high-capacity usage.	Adjusted for mobile efficiency, offering smooth operation and lower battery consumption.	Designed to work effectively across a wide range of Android devices.
Software Integrations	Allows extensive third-party and custom integrations, such as conferencing systems and productivity tools.	Limited to integrations supported by the iOS environment.	Integration options vary by device manufacturer and Android version.
Device Support	Fully compatible with Windows 10 and 11.	Runs smoothly on iPhone and iPad with full feature support.	Supported across Android phones and tablets running the latest four OS versions.

Positive notes

- Teams on iOS and Android offer fast access to chats, meetings, and notifications.
- Portable and convenient
- The menu is very neat and concise (Figure 7).
- From the chat, the users can chat, call, video call, add attachments, audio clip, send location, mark chats as important, format text, and send emojis, among other things.
- The chat system is user-friendly, as it resembles other social media platforms (Figure 8).
- The filter button opens a list of features to help you find the needed chat quickly (Figure 9).
- The calendar is very flexible.
- It is easy to create a group chat.
- The Windows version is very similar to the mobile application.
- **Positive reviews** - According to the reviews, the application has seamless integration with other Microsoft products, consistently strong performance in calls and video meetings, advanced AI capabilities like live transcript, unlimited chat and calls, screen sharing, whiteboards, breakout rooms, and mobile access are highly valued, and it is considered an affordable option, especially for companies already using a Microsoft 365 plan.



Figure 7 Bottom Navigation Bar

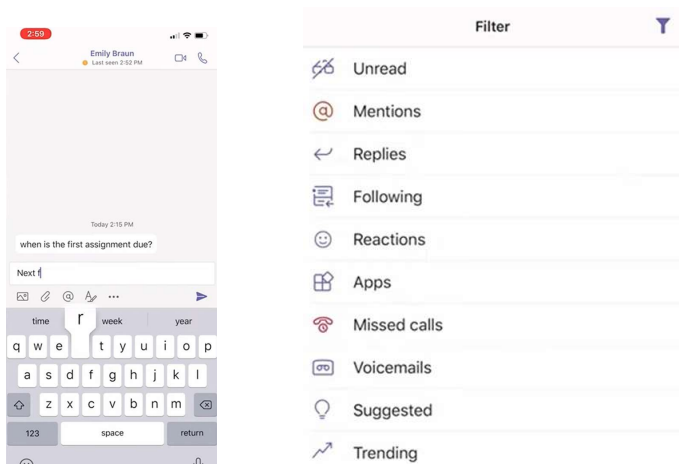


Figure 8 Chat Page

Figure 9 Filter List

Negative notes

- Some functional constraints compared to the desktop environment.
- **Negative reviews** - Some users find the interface overly complicated, frequent updates are seen by some as complicating the user experience rather than simplifying it, and tools for administrators can be difficult to manage

Canvas LMS (Android 4.7 /5 rating & IOS 4.7 /5 rating)

Canvas is a cloud-based LMS developed by Instructure, which also includes Canvas Network, an open online learning platform. While the main Canvas LMS is used by schools, universities, and organisations for their enrolled students and staff, Canvas Network offers free public courses and learning programs from institutions worldwide.

Features for each specific user type in Canvas LMS.

Students

- View all Courses (Figure 10), view grades, content, and notifications (Figure 11).
- Submit assignments and download briefs.
- Messaging to instructors and peers (Figure 13).
- Use calendars and to-do lists (Figure 12).
- Take quizzes.

Teachers

- Provide feedback and grading with the app-embedded Speed Grader.
- Can send notifications, messages and can participate in discussions.
- Publish assignments, change due dates, and edit course content.
- View submissions and provide feedback.

Parents

- View assignment descriptions, due dates, and grades for their child.
- See course notifications and messages.
- Set reminders for assignments.

Features for Canvas Network.

- Canvas Network is a separate platform that is linked to Canvas LMS, which provides free and open professional development courses for educators.
- It is an open-source professional development course, not a traditional LMS.
- Students have the same features as in Canvas LMS.
- Teachers can create new courses and assign students to the course.
- The mobile experience is limited because Canvas Network doesn't have its own app and can only be accessed through a mobile web browser.

Positive notes

- The way one can create a new account is ideal since the user does not have to be registered with an institution, and users can choose their role as teacher, student, or parent for Free (Figure 14).
- The accessibility of the Dyslexia font, keyboard navigation for motor skills and high contrast UI (figure 15).
- **Positive reviews** - Many users praise its usability for quickly checking grades, assignments, and notifications.

Negative notes

- The students have to generate a code for parents to view their child's progress, but the code expires after 7 days or after the first time it is used.
- The teachers have to generate a code for each student to be enrolled in a course.
- **Negative reviews** - some criticise its occasional slowness, confusing interface for new users, and bugs, particularly with features like messaging. The user experience is heavily dependent on how instructors set up their courses, which can lead to inconsistency.

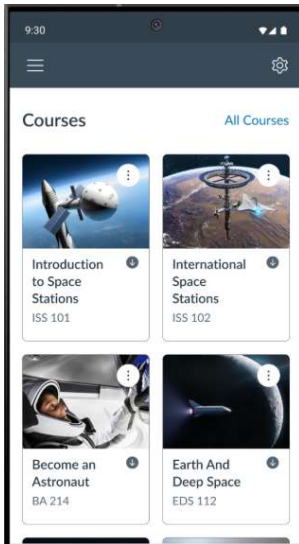


Figure 10 View all Courses

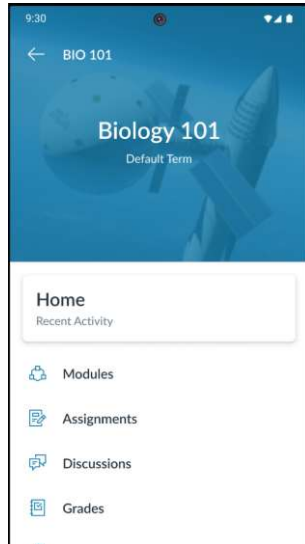


Figure 11 View grades and contents

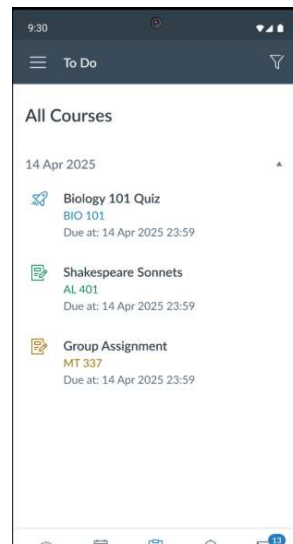


Figure 12 To-Do-List



Figure 13 Communication

Create Your Account

Already have an account? [Log in](#)

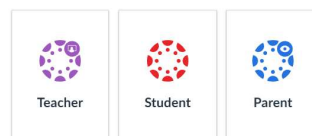


Figure 14 Create Account



Figure 15 Accessibility

Features

➤ Login screens

- Welcome screen
 - Displays the app logo and branding.
- Choose Your Path
 - Allows users to log in through an institution or as an independent user.
- Login page
 - Fields for email and password.
 - There is the Forgot Password link for password recovery.
 - The login button connects to the user's home page after verification.
- Login Option
 - Option to log in as Teacher, Student, or Parent.
- Sign-Up Page
 - Fields for name, email, and password.
 - Click the Sign-up button to create a new account.
- Forgot Password Process
 - User enters email to receive reset code.
 - User enters verification code from email.
 - User sets a new password and confirms it.
 - Confirmation message shows that the password has been successfully updated.

Supported by Research:

- Supports flexibility similar to Canvas, which allows signing up without an institution.
- Secure user authentication system similar to Classter's institutional login.
- Helps tailor the interface and features according to each role, inspired by Canvas, which provides different views for each user type.
- Inspired by modern LMS security flows like Canvas and Microsoft Teams.

➤ Welcome banner

- Banner on the home page showing a personalised positive greeting message which includes your name, based on the time of day

Supported by Research:

- Inspired by Microsoft Teams' user-friendly design and positive user engagement tools.

➤ Plan & Schedule

- Calendar
 - View your timetable from the calendar icon at the bottom or from the menu.
 - Add your appointments/events/part-time schedule/assignment due dates, etc.

- Choice between day/week/month view

Supported by Research:

- Microsoft Teams' calendar was found to be flexible and easy to navigate
- Users appreciated the ability to manage schedules in one place.

➤ Enrolment

- Shows your course code and name
- List of your units, including unit name, unit code and lecturer name

Supported by Research:

- Canvas emphasises structured course and unit display for clarity.

➤ My Units

- List of units you are enrolled in
- Click on any unit
- It opens a new page where you can choose to show Files, Assignments, or Grades
- From the Files page, you can download the files
- From the Assignments page, you can upload files and submit them
- From the Grades page, you can view a list of all subjects that are graded, including unit code, unit name, task title, mark and grade
- Click on View Details from the Grades page, and it opens a different page showing also the comments

Supported by Research:

- Canvas offers separate sections for Files, Assignments, and Grades, which users found easy to use.
- Research showed students appreciate it when all course materials are grouped by subject.

➤ Grades

- From the Grades page, you can view a list of all subjects that are graded, including unit code, unit name, task title, mark and grade
- Click on View Details from the Grades page, and it opens a different page showing also the comments

Supported by Research:

- Canvas includes a detailed Grades page that was well-liked by users.

➤ Notifications (sent by admins and teachers)

- List of notifications
 - Sender's name
 - Subject
 - Date
- Click on any notification to open the notification on a different page to read more

Supported by Research:

- Canvas and Classter both use notification systems for assignments, grades, and announcements.
- Research showed this helps users stay informed and organised.

➤ Chats

- List of chats
 - Sender's name
- Click on any message to read more
- Click on new chat – to write a new chat
 - search who you want to send the text message to
- Write a message and send

Supported by Research:

- Microsoft Teams' chat system was rated highly for being familiar and user-friendly (similar to social media).
- This makes communication easier for students and teachers.

➤ Appearance

- Choose between Dark and Light Mode with a toggle bar from a pop-up

Supported by Research:

- Consistent design across screens (as seen in Teams) improves usability.

➤ Profile

- Name
- Upload a photo
- Delete the photo

Supported by Research:

- Canvas and Classter both allow simple account customisation, which users find helpful for identification and engagement.

➤ Teaching Units (from the teacher's view)

- List of units and classes you are enrolled in
- Click on any unit
- It opens a new page where you can choose to show Files, Assignments, or Grades
- Files button
 - You can see a list of files, if any, with the option to delete them
 - Upload a file
 - From the upload page, it opens a form
 - Select File
 - Category (dropdown menu)
 - Homework
 - Assignment

- Class
 - Notes (add notes)
 - Send button
 - Cancel button
- Assignments button
 - It takes you to the Class List page
 - Click on any student name
 - The teacher can view the student's assignments
 - Download or open in browser
 - Grading Button
 - Opens a new form that includes Unit name, Task title, Mark, Grade and Comments
 - Save button
- Grade button
 - It opens a page with the class list and marks

Supported by Research:

- Canvas allows teachers to create courses, upload materials, and manage grades easily.
- Microsoft Teams supports file sharing and team organisation, which inspired this structure.

IPO of Login

Input	Process	Output
Loading app	Loads app	App loaded
User chooses Login with Institution or Login as Independent User	System redirects the user to the correct login screen	The login screen for the chosen path is displayed
Login with Institution	System assigns the correct role-based login path	The specific login page appears
Independent users select a role between Teacher, Student or Parent	System assigns the correct role-based login path	The specific login page appears
From the Login Page, the user enters their email and password	System validates login credentials in the database	If correct, the user is directed to the Home Page If incorrect, an error message is shown
Log in without having an account	System checks if you have an account	If no account is found, an error message is shown
Click the sign-up link	Loads sign-up page	The sign-up page is shown
From the sign-up page, the user enters their name, email, and password	System validates data and creates a new account in the database	The Home page is shown
Click the Forgot password link	Loads Forgot password page	The forgot password page is shown
From the Forgot Password page, the user enters their e-mail and clicks the Reset password button	The system will send a Code to the user's email	Code received, and the Enter Code page is shown
User enters verification code and clicks the Verify Code button	System matches code with the database	If valid, proceed to the Set a New Password page If invalid, an error message is shown
From the Set a New Password page, the user enters the new password and confirms it. Click update password	System matches passwords	If it matches, proceed to the Password Updated page If it does not match, an error message is shown
From the Password Updated page, click Login	Loads the First Login page	Login page loaded

IPO of the Master Layout

Input	Process	Output
Click on the Home link	Loads the Home page	The Home page is shown
Click on the Plan & schedule link	Loads the Plan & Schedule page	The Plan & Schedule page is shown

Click on the Enrolment link	Loads the Enrolment page	The Enrolment page is shown
Click on the My Units link	Loads the My Units page	The My Units page is shown
Click on the Grades link	Loads the Grades page	The Grades page is shown
Click on the Notifications link	Loads the Notifications page	The Notifications page is shown
Click on the Chats link	System loads chat list	Displays recent messages
Click on the Dark/Light mode	Loads the Dark/Light mode	The Dark/Light mode is shown
Click on the Logo	Loads the Home page	The Home page is shown
Once you are logged in	The system detects the username and time of day	Displays a personalised greeting
Click on the Profile picture	Loads the Profile page	The Profile page is showing profile image, name & surname & role
Click on the Upload icon	Loads the photo gallery	It opens the photo gallery
Choose a photo	Check the size and file format	The photo is uploaded
Click on the Bin icon	System asks for confirmation (e.g., "Are you sure you want to remove your profile picture?").	If confirmed, the profile image will be deleted
Click on the Sign out button	The system will end the user's active session.	The Login page is shown

IPO of Bottom Navigation Bar

Input	Process	Output
Click on the Calendar icon	System retrieves the timetable and allows the user to add personal appointments	Calendar view showing timetable and saved events
Click on the Enrolment icon	System fetches the user's course, units, and lecturer details	Displays course info (unit code, name, and lecturer)
Click on the My Units icon	System retrieves the list of enrolled units	Displays unit names, codes, and lecturer names
Click on the Notifications icon	System retrieves updates from admins/teachers	Displays a list of messages
Click on any notification	Expand the notification	All message is shown

IPO of the Plan & Schedule page

Input	Process	Output
Click on the Day, Week, or Month view	System updates the calendar layout based on the chosen view.	Calendar view changes accordingly (Day/Week/Month)
Click on the + icon and fill in the event details: Title, Date, Starting Time, Finishing Time, and Description. Click the Save button	System validates all fields, and the Event is saved in the user's schedule.	A new event has been added and is displayed on the calendar.
Click on a personal event to delete or add the event	System updates the calendar accordingly	The event is deleted or added

IPO of My Units

Input	Process	Output
Click on any unit	The System retrieves info of the specific unit (code, name, lecturer name, credits), Unit page	The unit page is shown with all info, including Files, Assignments and Grades buttons
Click on the File button	The system retrieves the files of that unit	The Files page is loaded, showing the retrieved files
Click on the download icon	System downloads a file from the database	The file is downloaded
Click on the Assignments button	The system retrieves the assignment forms for that unit	The Assignments page is loaded, showing the retrieved submission forms
Click on the Submit button	File uploads to the server	File uploaded
Click on the Grades button	The system retrieves the marks and grades of that unit	The Grades page is shown
Click on the View Details button	The system retrieves the comments of that unit	A detailed view of grades is shown

IPO of Teachers' View of Enrolment

Input	Process	Output
Click on the Enrolment icon	System fetches the user's courses, units, and class details	Displays courses info (unit codes, names, and class details)
Click on any class name	System retrieves class details from the database	The list of students' details is shown, including name and ID
Click the back arrow	Loads the Enrolment page	Enrolment page is loaded
Click on any student's name from the Class page	The system retrieves students' assignments from the database	The students' assignment page is shown

Click on any file from the Assignment page and select Download or view in Browser	System downloads/opens a file from the database	The file is downloaded or opened
Click on the Grading Button	System fetches the grading form (Unit code and name, Task title, mark, grade and comments)	The grading form is shown
Click the Save button	System saves the grading form	Grading is saved

IPO of Teachers' View of Teaching Units

Input	Process	Output
Click on the Teaching Units icon	System fetches all units the teacher is enrolled in	List of all units (Unit code/name and class name)
Click on any unit	The System retrieves info of the specific unit (code, name, class name, credits), Unit page	The unit page is shown with all info, including Files, Assignments and Grades buttons
Click on the File button	System retrieves files loaded for the specific unit	List of loaded files shown
Click the Delete icon	Deleting file	The file is deleted
Click on the Upload file icon	System fetches the Upload file form (Select a file, category, class, notes, Send and Cancel button)	Form is shown
Fill in the form and click the Send/Cancel button	The system sends the file to the respective class or cancels it	The file is sent or cancelled
From the Teaching Unit page, click on the Grades button	System retrieves the respective class Grades page	The list of students' names, ID and marks is shown

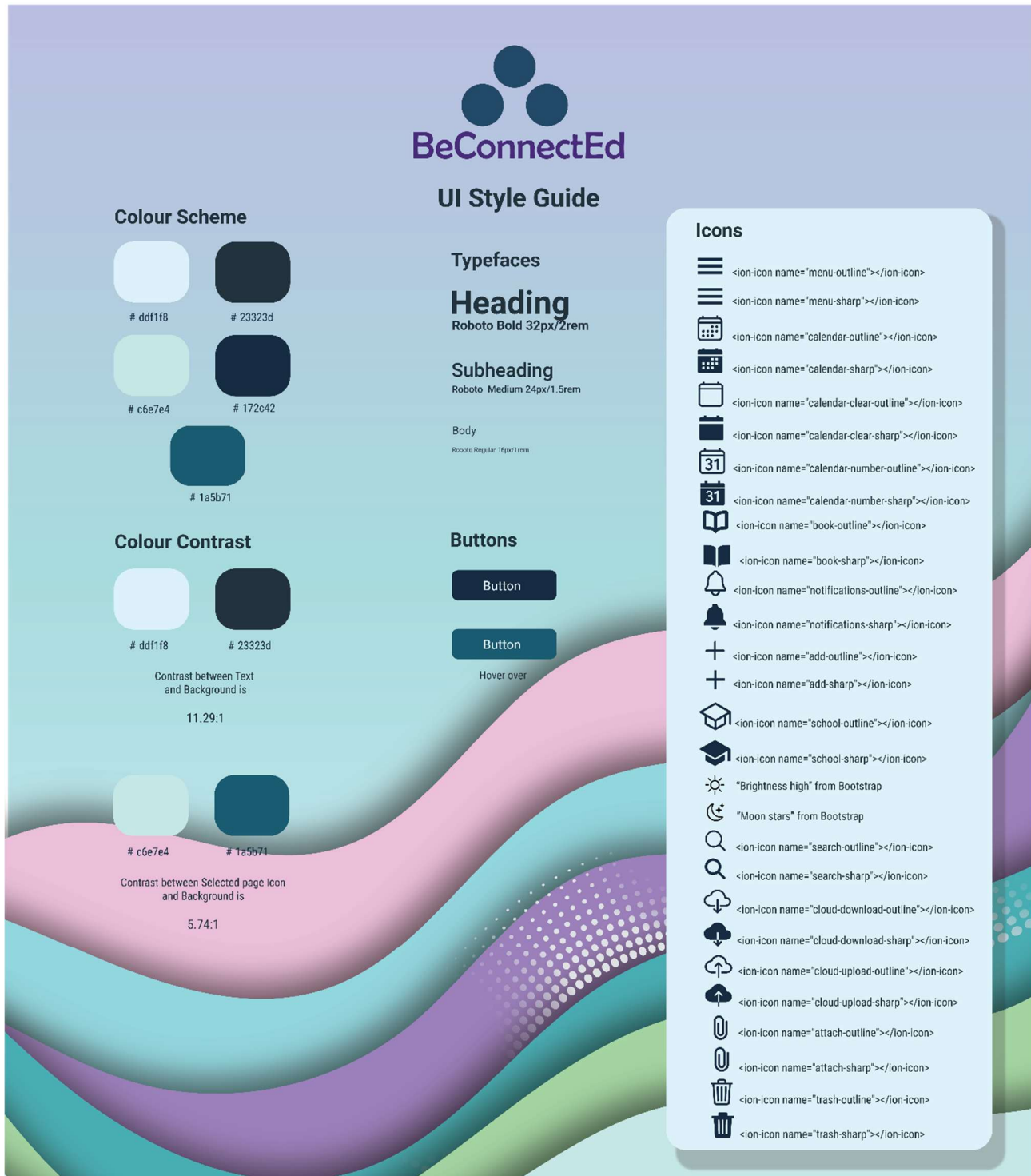
IPO of Chat

Input	Process	Output
Click on the Chats link	System loads chat list	Displays recent messages
Click on any message	System loads the history chat with that sender	Displays the history chat page
Clicks the new chat icon	Loading a new page	The new page is shown
Clicks on the Search icon to search for a username	System searches the user from the database	Displays the history chat page of that user
Write a message	Sending message	Message sent


The Home page displays a personalised welcome banner with the student's name, and a positive greeting message based on the time of day. This page is designed to create a friendly and

motivational experience when users open the app. The Enrolment page displays the user's course title, course code, and a list of enrolled units with their respective unit names, unit codes, and lecturer names; therefore, these screens are informational only.

Style Guide Light Mode




Style Guide Dark Mode




BeConnectEd

UI Style Guide


Colour Scheme




ddf1f8



23323d




c6e7e4




6cb6b7


Colour Contrast



ddf1f8




1b3e53




172c42

Contrast between Text and Background is

12.2:1



172c42



6cb6b7

Contrast between Selected page Icon and Background is

6.1:1

Typefaces

Heading

Roboto Bold 32px/2rem

Subheading

Roboto Medium 24px/1.5rem

Body

Roboto Regular 16px/1em


Buttons


Button


Button


Hover over


Icons


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`<ion-icon name="book-sharp"></ion-icon>`


`<ion-icon name="notifications-outline"></ion-icon>`


`<ion-icon name="notifications-sharp"></ion-icon>`


`<ion-icon name="add-outline"></ion-icon>`


`<ion-icon name="add-sharp"></ion-icon>`


`<ion-icon name="school-outline"></ion-icon>`


`<ion-icon name="school-sharp"></ion-icon>`


`"Brightness high" from Bootstrap`


`"Moon stars" from Bootstrap`


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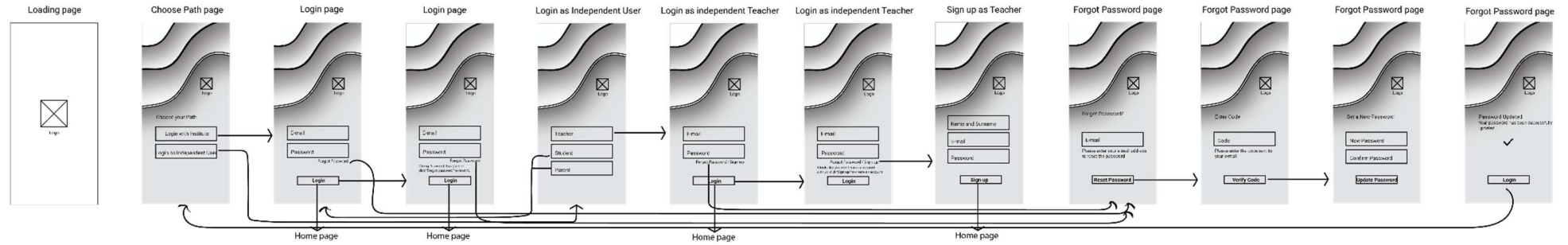
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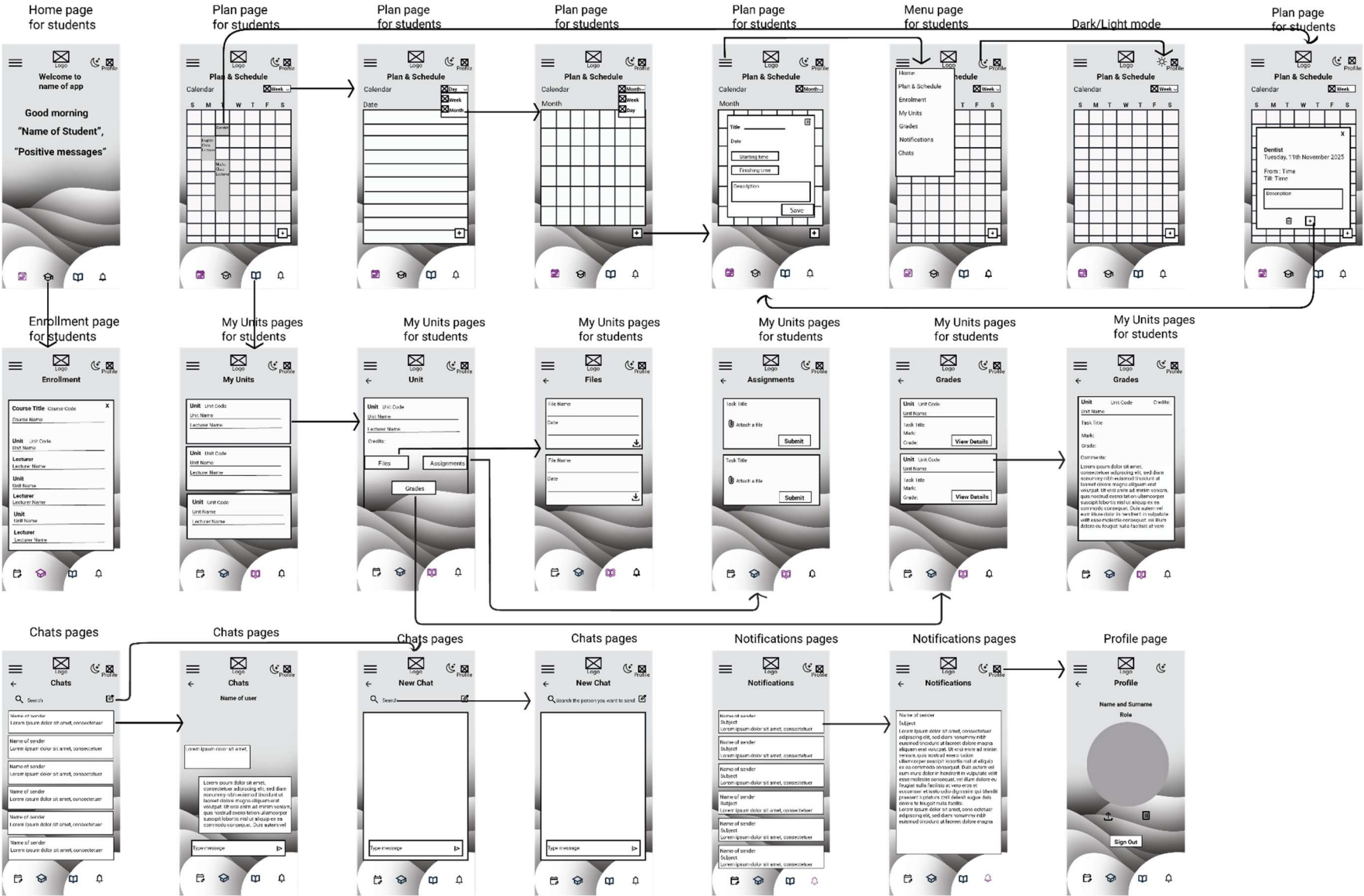
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Wireframes

Login Pages



Student's View



Teacher's View

