# PROBLEM STATEMENTS

- Difficulty in organising and completing multiple complicated tasks.
- Unoptimised study/work technique that leads to a lot of wasted time.
- Lot of time is usually wasted in trying to the right resources required
- Improper sleep schedule that leads to poor quality of health and in turn drop in productivity.

# FEATURES

## TO DO LIST

- Organises multiple tasks into simple lists.
- Complicated tasks broken down into multiple simple tasks which eases completion.

## POMODORO

- Optimised way of studying with breaks.
- Helps avoid distractions and focus better.

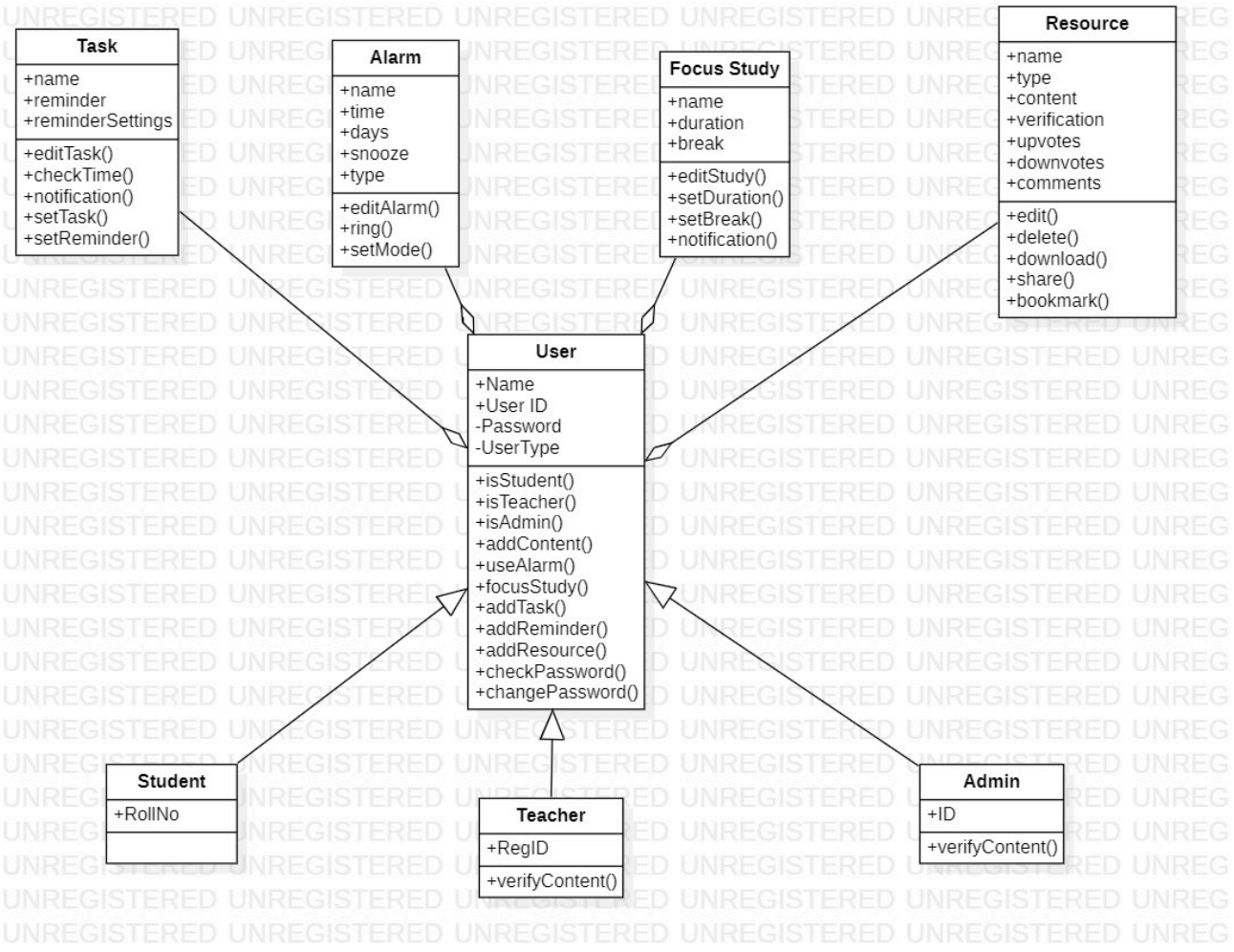
## SMART ALARM

- Keeps track of sleep and gives warning if its too low.
- Flexible wake up time according to sleep duration set.

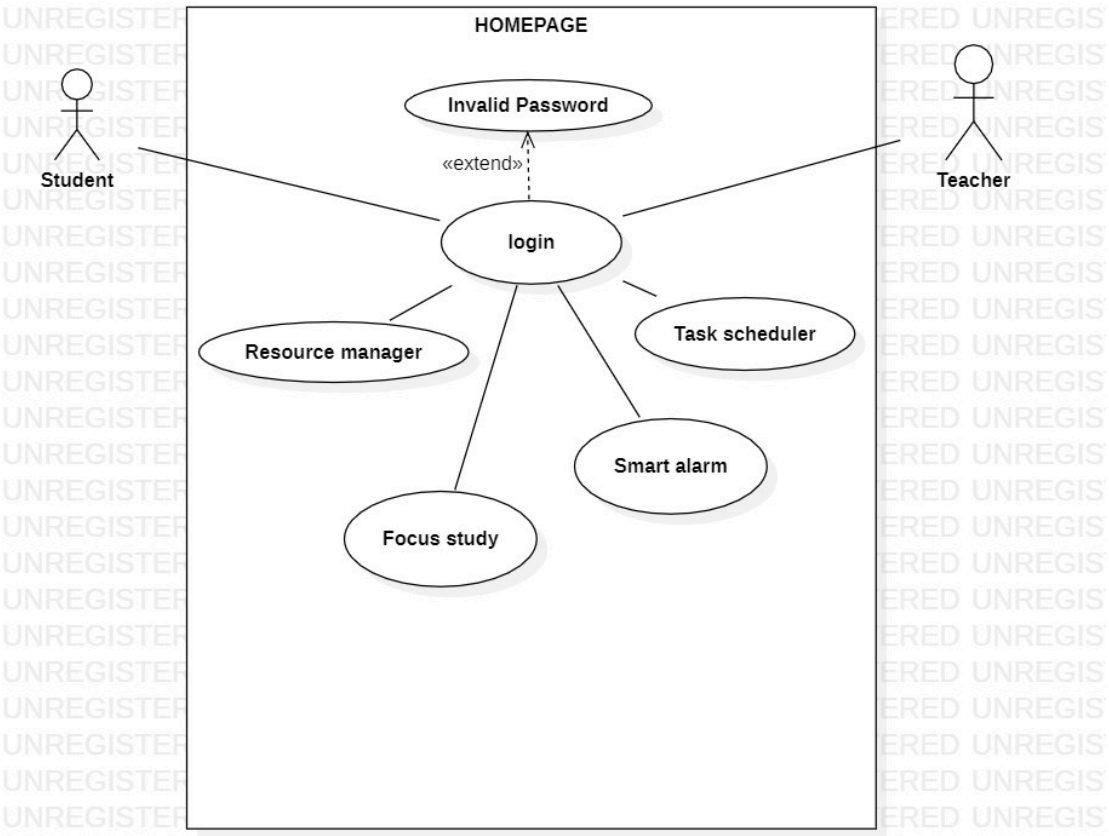
## RESOURCES

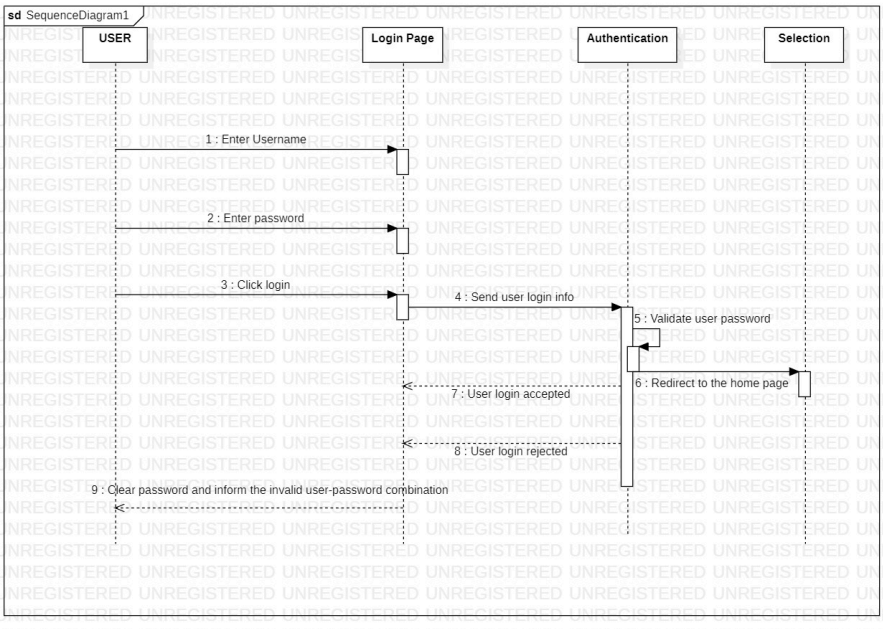
- One place for important resources related to any particular subject/topic.
- Upvote system that sorts resources according to relevance/usefulness.

# CLASS DIAGRAM

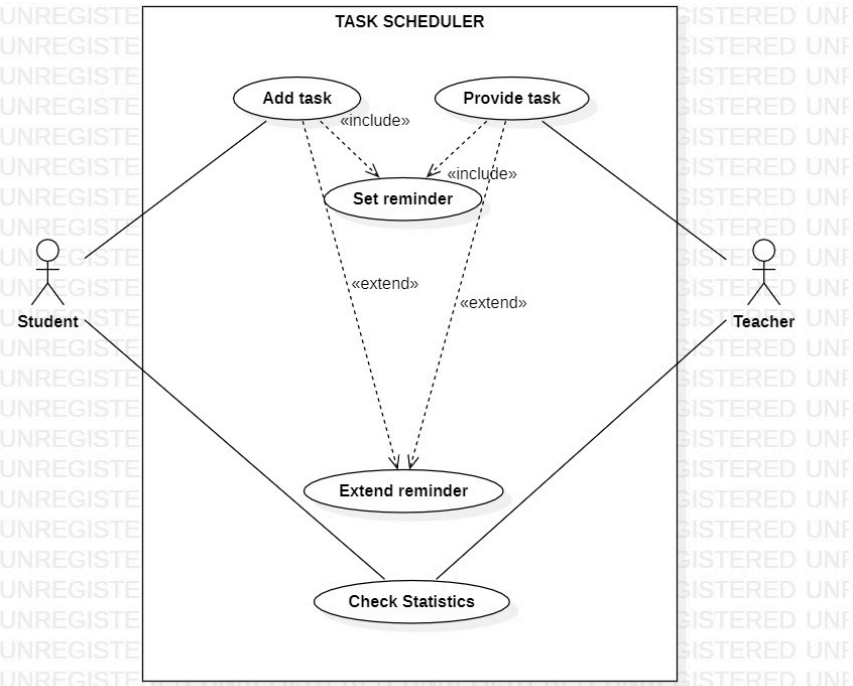


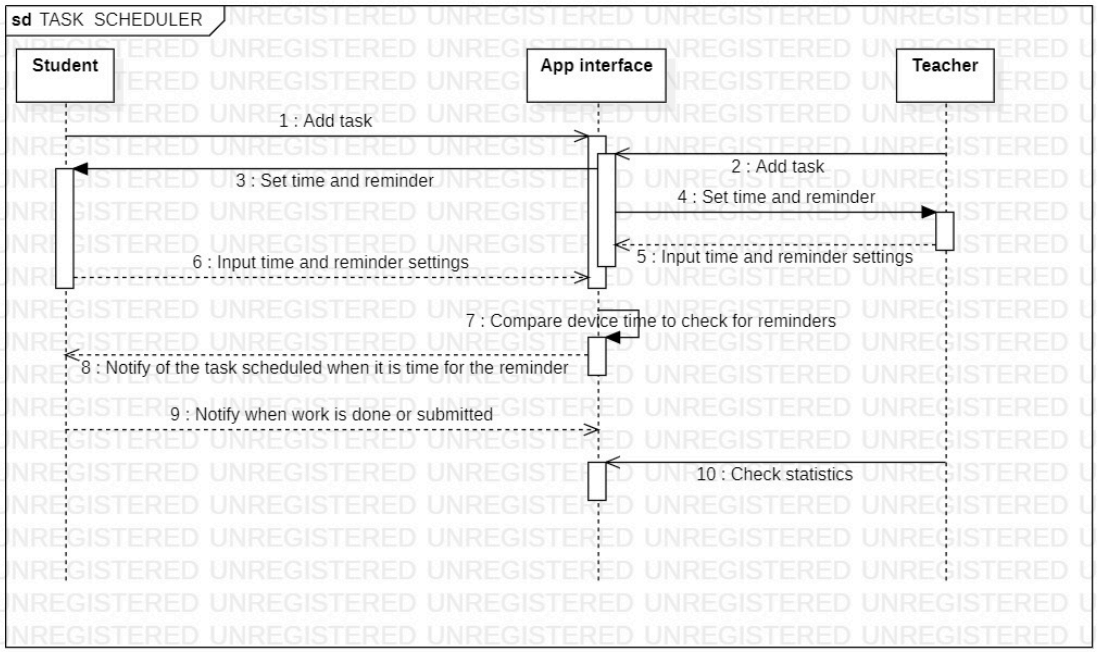
# USER LOGIN USE CASE AND SEQUENCE DIAGRAM



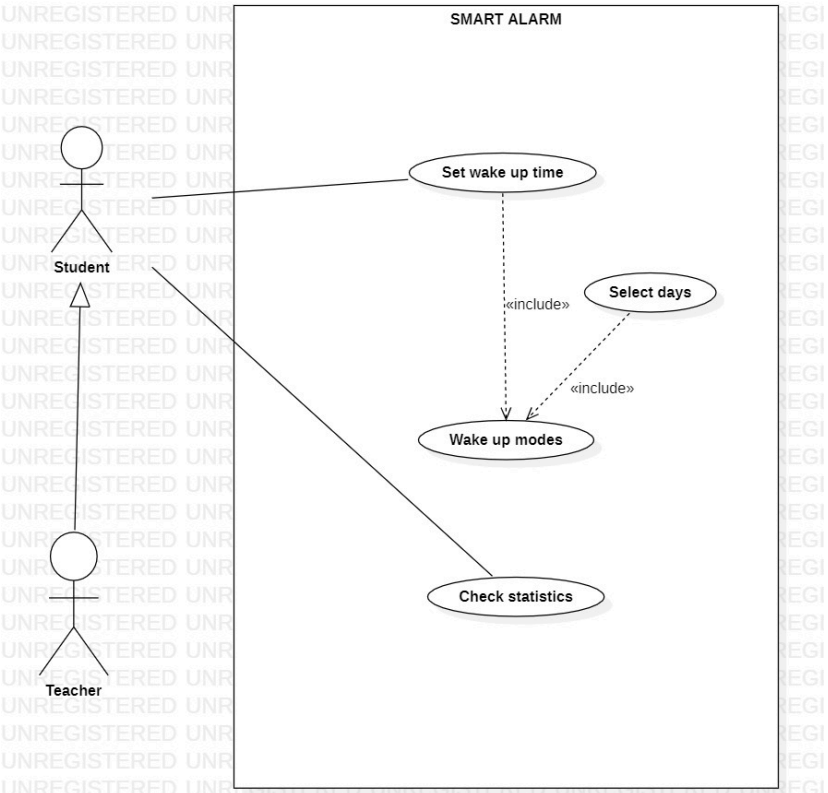



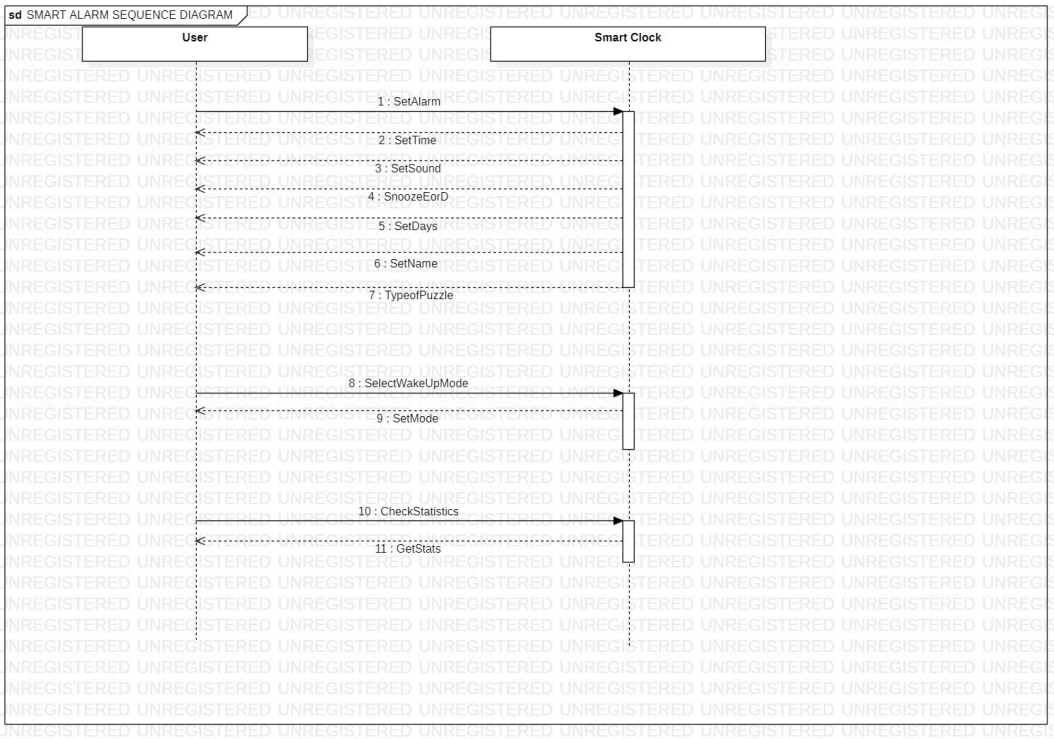
# TASK SCHEDULER USE CASE AND SEQUENCE DIAGRAM



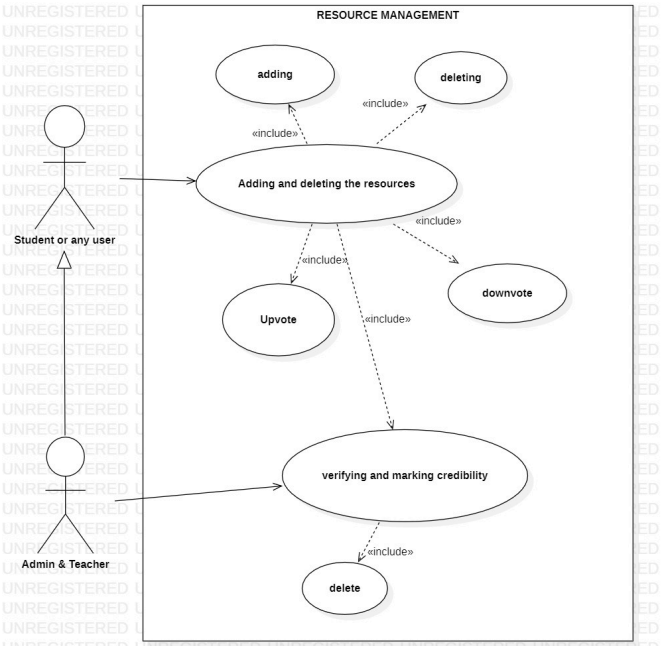



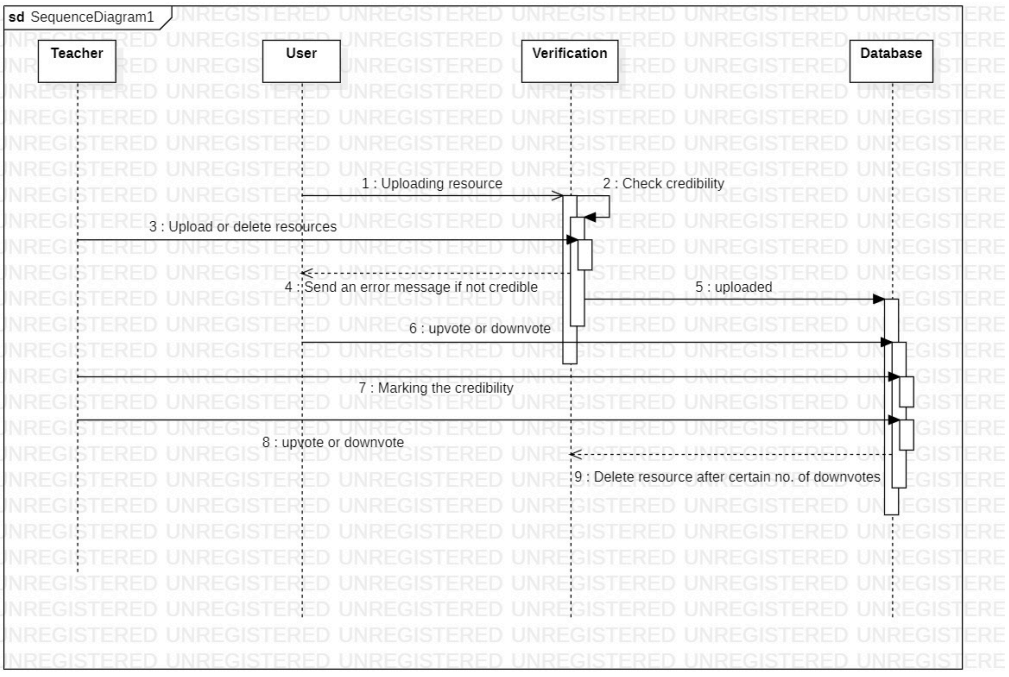
# SMART ALARM USE CASE AND SEQUENCE DIAGRAM



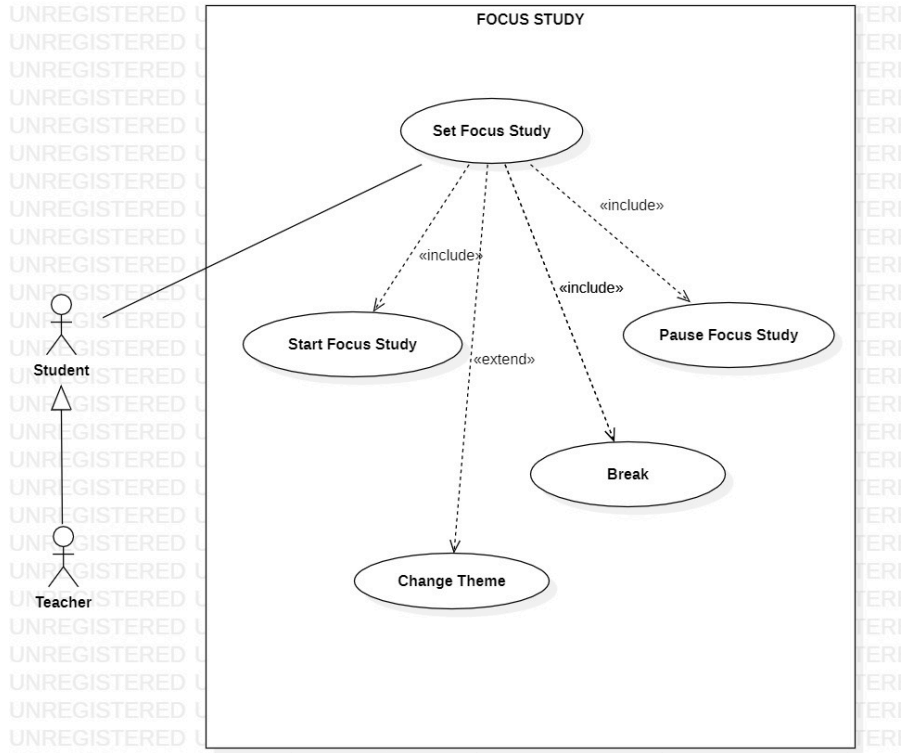



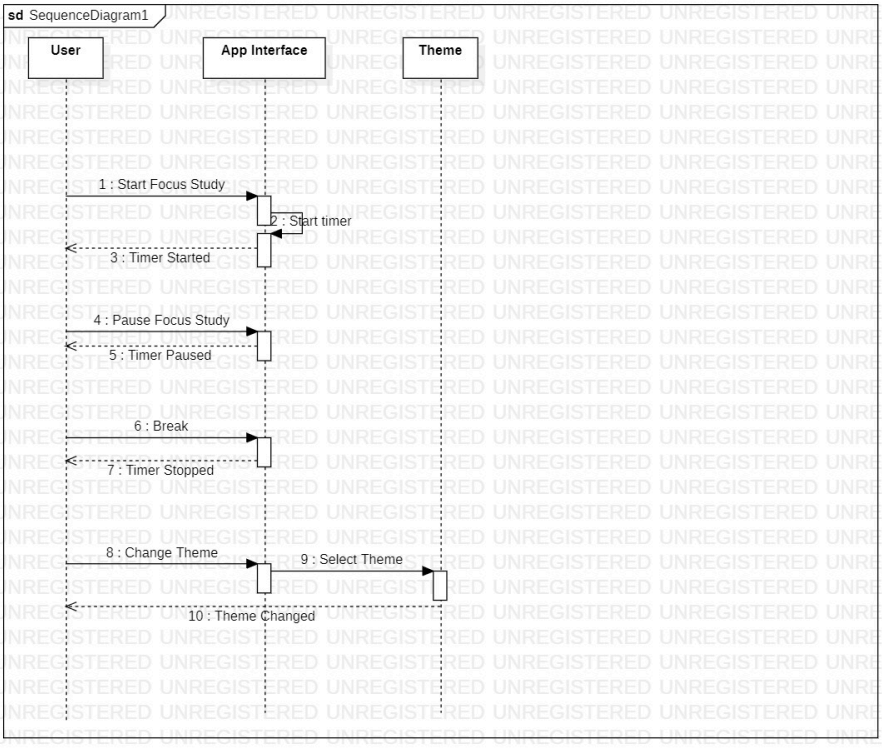
# RESOURCE MANAGEMENT USE CASE AND SEQUENCE DIAGRAM



# FOCUS STUDY USE CASE AND SEQUENCE DIAGRAM



# FEASIBILITY REPORT

## 1. Economic Feasibility

- Cross-platform application
- Real-time database management
- User authentication
- Low bandwidth requirement
- Subscription-based pricing
- Cost of maintenance and debugging

## 2. Technical feasibility:

- Some of the major tools we will be using for this application are as follows:
  Flutter
  Firebase
  Figma

- Using the free versions of these tools, the project can save on costs while still having access to powerful development and design tools.

## 3. Legal feasibility:

- ClearDally will comply with relevant laws and regulations to protect user data and ensure legal compliance.
- ClearDally has the potential to have a positive social impact by improving organisation and reducing stress for educational institutions.
- To ensure adoption and usage, ClearDally will have a user-friendly interface, be easy to navigate, and provide value to its users, requiring ongoing user feedback and testing.

## 4. Operational Feasibility:

- ClearDally simplifies the user experience by offering a single solution to multiple problems faced by users, eliminating the need to switch between different applications.
- ClearDally is designed to be flexible and customisable to meet the specific needs of different institutions and user groups.

- The app is scalable and can evolve to meet the changing needs of its user base and institutions over time, making it operationally feasible in the long term.

# Software Development Life Cycle

## Requirement elicitation:
Brainstorming with members of the team.

## Prototyping:
Used Figma for generating a clickable wireframe.

## Development and implementation:
Divided work among ourselves to generate each feature one by one using Flutter framework.

## Testing:
Default automated testing of widgets gets automatically done in a Flutter framework.

**Maintenance and updates:**
Database will be maintained and the patch fixes that may be required will be done.
Can also expand user base by catering to different needs (through feedback) which may be later on used to personalise the app by the users.

# Development Methodology Used: Scrum

- Initially, the home screen and the basic screen components were created.
- Later on, added functionality to each feature (product backlog) of the app by further subdividing them into little tasks (scrum backlog).
- Meets (sprint review) were conducted after some tasks got completed to ensure members were on the same page.
- Later on, attempted to match the UI design created during prototyping.

# Conclusion

- Simplified the way of completing tasks.
- Increase productivity.
- Ease of access to resources.
- Future - expanding into bigger user base.