# ACTIVITY LOG & REPORTS



**Jawaharlal Nehru Technological University Anantapur**

**(Established under A.P. Govt. Act No.30 of 2008)**

**Ananthapuramu - 515002, Andhra Pradesh, India**

## COMMUNITY SERVICE PROJECT

Name of the Mentor: **Prof.R.RAJASEKHAR.**

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| **NAME OF THE STUDENT** | **SEMESTER** | **REG NO** |
| S.HUMERA TABASSUM | IV | 23001A0525 |
| S.SREELAHARI | IV | 23001A0543 |
| D.YOUNIS | IV | 23001A0544 |
| **ACTIVITY LOG** | **FOR THE FIRST WEEK** |  |

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| **DAY & DATE** | **BRIEF DESCRIPTION OF THE DAILY ACTIVITY** | **LEARNING OUTCOME** |
| **Day – 1** | Finalized the website concept for elderly and busy users.. | Learned how to define a community problem and propose a solution.s |
| **Day - 2** | Conducted research on elderly care needs and tech solutions. | Understood elderly challenges and tech- based intervention ideas. |
| **Day – 3** | Outlined features like reminders, health journal, and wellness tools. | Learned modular thinking and real-world healthcare design. |
| **Day – 4** | Finalized tech stack (HTML, CSS, Node.js, MongoDB) and backend plan. | Unnderstood tool selection for full-stack development. |
| **Day – 5** | Sketched wireframes and planned homepage layout with sections | .Practiced UI planning and layout sketching |
| **Day – 6** | Installed Node.js and cleared old MongoDB; prepared for backend setup. | .Gained experience in setting up backend tools. |

**Signature of the Student** **Signature of the Mentor**

WEEKLY REPORT

WEEK – 1

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| **Objective of the Activity Done:** |
| To identify a real-world health issue affecting elderly people and propose a tech-enabled website that solves it with reminders, health logs, wellness content, and support systems. |
| **Detailed Report:** |
| In the first week of our CSP journey, we conceptualized the idea of a digital health companion tailored for elderly and busy individuals. After thorough team discussions, we agreed on the name **CareCompanion**, a supportive web platform that would act as a centralized system to manage medicines, appointments, wellness, and daily tracking.  We began researching the real-world problems faced by elderly people, such as forgetting medicines, feeling isolated, or not being able to track vital signs regularly. Through our study of existing solutions and health tech platforms, we found gaps in personalization, emotional wellness, and ease of use. This led us to outline modules like **Reminders, Journal Logs, Appointments, Nutrition, Exercise**, and **Emotional Wellness**.  Once the concept was validated, we outlined all the features and decided on a **modular development structure**. We also finalized the **tech stack**: HTML, CSS, JavaScript for the frontend, Node.js for backend development, and MongoDB for database storage.  Wireframes were sketched to visualize how the homepage and key modules would look. We divided responsibilities among ourselves, and finally, we installed **Node.js** and cleared old MongoDB setups to begin backend configuration in the next phase. This week served as a solid foundation for technical and design planning. |

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ACTIVITY LOG FOR THE SECOND WEEK

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| **DAY & DATE** | **BRIEF DESCRIPTION OF THE DAILY ACTIVITY** | **LEARNING OUTCOME** |
| **Day – 1** | Created index.html with basic header and footer. | Learned how to structure an HTML page. |
| **Day - 2** | Added block sections for each module using divs. | Understood layout design using CSS grid. |
| **Day – 3** | Styled blocks and ensured responsiveness | Practiced responsive layout using CSS. |
| **Day – 4** | Implemented footer, navbar, and language dropdown. | Improved site interaction and design flow. |
| **Day – 5** | Tested homepage on multiple devices; fixed layout bugs. | Learned basic UI testing and debugging |
| **Day – 6** | Linked homepage blocks to internal module pages. | Understood anchor linking for page navigation |

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WEEKLY REPORT

WEEK – 2

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| **Objective of the Activity Done:** |
| To begin actual frontend development using HTML and CSS and build a responsive homepage layout linked to future modules. |
| **Detailed Report:** |

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| In Week 2, our focus shifted to translating our plans into a working UI. We started by developing the homepage using **HTML and CSS**, adding a basic structure with a **header, main content blocks, and footer**.  We divided the homepage into blocks, with each representing a module like Medications, Nutrition, Appointments, and more. Each block was styled with CSS, and we ensured that the grid layout responded well to different screen sizes, enhancing **responsiveness** using media queries and Flexbox.  The navigation bar was added to allow users to move between the homepage and internal pages. We implemented a **language selection dropdown**, making the site more accessible and user-friendly for different audiences. Small icons and color themes were introduced for intuitive navigation and visual consistency.  After initial layout setup, we rigorously tested the homepage on various devices, resolving spacing and overflow issues. We then linked each module block to a placeholder HTML file using anchor tags (<a href>), allowing internal navigation from the homepage. |
| By the end of the week, we had a clean, functional homepage ready to connect to all module interfaces. This visual skeleton formed the entry point to our entire platform. |

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NAME OF THE STUDENT SEMESTER REG NO

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ACTIVITY LOG FOR THE THIRD WEEK

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| **DAY & DATE** | **BRIEF DESCRIPTION OF THE DAILY ACTIVITY** | **LEARNING OUTCOME** |

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| **Day – 1** | Built HTML pages for Reminders and Health Journal. | Learned how to structure log-based modules |
| **Day - 2** | Designed input forms for BP, sugar, temperature. | Practiced form creation and validation logic. |
| **Day – 3** | Created Appointment page with alert and reminder structure. | Understood reminder scheduling UI |
| **Day – 4** | Developed Nutrition page with content based on age groups | Learned how to filter information by demographics. |
| **Day – 5** | .Added Exercise page with embedded YouTube videos. | Learned embedding media and designing trackable activities. |
| **Day – 6** | Styled all new pages and ensured visual consistency. | Practiced UI/UX consistency in multi- page environments. |

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WEEKLY REPORT WEEK – 3

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| **Objective of the Activity Done:** |
| To develop all key module pages like Reminders, Journal, Appointments, Nutrition, and Exercise using structured HTML and CSS styling |
| **Detailed Report:** |
| Having completed the homepage, we began building the internal module pages that would carry the core functionality of CareCompanion. First, we created a **Reminders Page** where users could enter daily medication schedules. The layout was built to be clean and easy to interact with, considering our target users.  We then moved on to the **Health Journal**, where users could record vital parameters like BP, sugar |

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| levels, and body temperature. Each parameter had its own input field, and appropriate validations were added.  Next, we developed the **Appointments Page**, including inputs for date, time, doctor’s name, and alert preferences. This section was designed to simulate a digital health diary.  The **Nutrition Page** was structured to present personalized diet plans based on age categories. For example, older users would see calcium- and fiber-rich suggestions, while younger users would see high-protein tips.  The **Exercise Page** featured embedded YouTube videos offering easy workout routines suitable for elderly individuals. The layout included a basic tracker UI for users to mark completed exercises.  At the end of the week, we styled all the new pages uniformly, ensuring that the color palette, fonts, and interactive elements remained consistent throughout the website. |

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ACTIVITY LOG FOR THE FOURTH WEEK

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| **DAY & DATE** | **BRIEF DESCRIPTION OF THE DAILY ACTIVITY** | **LEARNING OUTCOME** |
| **Day – 1** | Installed Node.js, Express, and MongoDB Compass. | Learned backend software installation. |
| **Day - 2** | Created backend folder structure and initialized server. | Understood Express.js setup and file organization. |
| **Day – 3** | Defined Mongoose schemas for Reminders and Health Logs. | Learned data modeling with MongoDB. |

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| **Day – 4** | .Connected journal and appointment forms to backend routes. | .Practiced API integration from frontend to backend. |
| **Day – 5** | .Tested data flow between UI forms and MongoDB using POST requests. | .Practiced backend testing using Postman and console logging. |
| **Day – 6** | Fixed backend errors and finalized working POST routes. | Strengthened debugging and routing skills. |

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WEEKLY REPORT WEEK – 4

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| **Objective of the Activity Done:** |
| To begin backend development using Node.js and MongoDB, build API routes, and connect frontend form data to the database |
| **Detailed Report:** |
| Week 4 marked the beginning of full-stack development. We installed **Node.js**, set up the backend project folder structure (models, routes, controllers), and initialized the server using **Express.js**. We also connected the app to **MongoDB Compass**, ensuring a smooth flow of data.  The backend schema design began with Mongoose. We created collections for **Reminders**, **Health Logs**, and **Appointments**, defining key fields and their data types.  Next, we integrated backend routes with the frontend. When users submitted forms on the Journal or Appointment pages, the data was sent using **POST requests** to the backend and saved in MongoDB. We verified each submission using **Postman** and console.log statements in the server.  Troubleshooting was essential during this phase. We faced connection errors and resolved them using MongoDB URI modifications and CORS adjustments. Once resolved, we completed full backend integration for at least three major forms.  This week gave us real experience in handling data flow, route setup, and connecting frontend user actions to real database storage. |

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ACTIVITY LOG FOR THE FIFTH WEEK

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| **DAY & DATE** | **BRIEF DESCRIPTION OF THE DAILY ACTIVITY** | **LEARNING OUTCOME** |
| **Day – 1** | Built Entertainment and Music modules with embedded content. | Learned to embed audio/video and multimedia content. |
| **Day - 2** | Designed “Happy Memories” page with image and text upload inputs. | Practiced file input form handling. |
| **Day – 3** | Developed Profile page with language options and theme settings | Understood user preferences and customization features. |

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| **Day – 4** | Linked all pages through sidebar and top navigation. | Learned navigation logic in multi-module sites. |
| **Day – 5** | Styled memory and quiz blocks with images/icons. | Practiced UI enhancement and visual creativity . |
| **Day – 6** | Finalized Settings and Footer UI for all pages. | Completed overall visual and navigational consistency. |

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**WEEKLY REPORT**

WEEK – 5

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| **Objective of the Activity Done:** |
| To enhance the web app with emotional wellness features like music, games, and memory pages, while improving personalization and UI aesthetics. |
| **Detailed Report:** |
| This week we shifted focus to **user engagement and mental health**. We started by building **Entertainment Pages** — one for games like Sudoku and General Knowledge quizzes, and another with embedded music playlists aimed at relaxation and focus.  We also designed the **Happy Memories Page**, allowing users to upload photos and add short notes about joyful memories. This page included file input fields and a gallery-style display to promote positivity.  To personalize the experience, we developed a **Profile Settings Page** where users could choose their preferred language and theme. While the login system wasn’t implemented, these options still made the user feel in control.  Navigation was upgraded across all modules. We created a **sidebar** and **top navigation bar** to seamlessly move between pages. This helped improve usability and gave the site a more professional finish.  UI polish was the highlight of this week. From memory card designs to block shadows, we enhanced visual presentation and interaction quality. |

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ACTIVITY LOG FOR THE SIXTH WEEK

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| **DAY & DATE** | **BRIEF DESCRIPTION OF THE DAILY ACTIVITY** | **LEARNING OUTCOME** |
| **Day – 1** | Tested all forms and navigation routes | Practiced frontend-backend validation. |
| **Day - 2** | Fixed mobile view layout issues using media queries. | Learned responsive layout fixes and adjustments. |
| **Day – 3** | Cleaned MongoDB records and finalized schema entries. | Practiced database maintenance and validation |
| **Day – 4** | Collected feedback from mentor and updated UI accordingly | Learned feedback incorporation and polishing. |
| **Day – 5** | .Cleaned up codebase and created README instructions. | Practiced documentation and final submission preparation. |
| **Day – 6** | Prepared presentation and final walkthrough explanation | Gained confidence in showcasing the project and its features. |

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WEEKLY REPORT WEEK – 6

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| **Objective of the Activity Done:** |

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| To finalize the project through full-system testing, responsive adjustments, data cleanup, and preparation of final documentation and presentation. |
| **Detailed Report:** |
| The final week focused on testing, refinement, and wrapping up the entire CareCompanion project. We began by testing every form and page across devices. We discovered and fixed bugs related to form resets, input validations, and layout inconsistencies on mobile screens.  Database records were cleaned in MongoDB Compass, and final data entries were added for demo purposes. We also deleted unnecessary test records and empty collections.  Our mentor reviewed the site and provided suggestions such as increasing text visibility, aligning form labels, and improving mobile padding. We applied these improvements immediately.  After that, we organized the codebase, removed unused images, and created a final **README.md** file explaining the project setup and usage instructions. This document helped us prepare for the presentation and submission.  Finally, we prepared a project walkthrough and practiced presenting our modules clearly. The app was now stable, responsive, functional, and ready for deployment or handover. |