Weekly Progress Report

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Weekly Report - Week 4

1. Overview

This week, I focused on front-end development technologies, studying HTML, CSS, JavaScript, and React. I also learned how to handle API requests using Axios and revisited the client-server architecture. This knowledge was applied to develop a functional frontend for users and an admin dashboard for my Health Care Management System project, which I have uploaded to GitHub.

2. Achievements

- **Frontend Technologies Study**: Completed a detailed study of HTML, CSS, JavaScript, and React, gaining the necessary skills to build a responsive and interactive user interface.
- **API Handling with Axios**: Learned how to handle API requests using Axios, essential for connecting the frontend with the backend services.
- **Client-Server Architecture**: Revisited the client-server architecture principles to ensure a robust interaction between the frontend and backend of my application.
- **Frontend Development**: Successfully coded a functional frontend for the Health Care Management System, including a user interface and an admin dashboard.
- **GitHub Repository**: Uploaded my frontend work to GitHub for version control and collaboration. The repository can be accessed at GitHub - WeCareFrontEnd.

3. Challenges

- **Responsive Design**: Ensuring the frontend was fully responsive and functioned well across different devices and screen sizes posed a challenge.
- **API Integration**: Integrating API requests with Axios and handling asynchronous data flow required careful debugging and testing.

4. Learning Resources

- **LMS Platform Documents and Videos**: Provided comprehensive materials on HTML, CSS, JavaScript, React, and Axios.
- **YouTube Tutorials**: Offered practical demonstrations and in-depth explanations of front-end development concepts and techniques.
- **Online Documentation**: Utilized official documentation for React and Axios to understand best practices and advanced functionalities.

5. Next Week's Goal

- **End-to-End Integration**: Integrate the frontend with the backend services to ensure smooth data flow and functionality across the application.
- **Azure Deployment**: Deploy the frontend application to Azure, ensuring it is accessible and interacts correctly with the backend services.
- **Testing and Debugging**: Conduct comprehensive testing of the entire application, including user interface and backend functionalities, to identify and fix any issues.
- **User Experience Optimization**: Focus on improving the user experience by refining the interface design, ensuring fast load times, and adding intuitive navigation.

By achieving these goals, I aim to ensure that the Health Care Management System is fully functional, user-friendly, and ready for deployment on Azure.