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FarmVendor Application

W26-4495

Progress Report #1

### Work Date/Hours Log

Date	No of Hours	Description of work done
Jan 13	2	finalised research idea for FarmVendor application by defining the core problem and scope.
	1	Install the basics development tools: .NET SDK, VS Code, SQL Server LocalDB, Node.js (for React)
Jan 14	4	Create backend: ASP.NET Core Web API and Tested in browser by resolving multiple installation dependency issues
Jan 15	4	Integrated ASP.NET Core Web API (net8.0)
		Configured SQL Server Local DB (FarmVendorDb)
		Implemented ASP.NET Identity
		Defined Roles: Farmer and Vendor
		JWT authentication
Jan 17	2	Working endpoints tested on postman (POST /Api/auth/register, POST /Api/auth/login)
Jan 20	0.5	Project idea re-evaluation with Professor(Madam Priya) and refined research idea
Jan 21	2	Initial research on existing mobile, web-based applications and background research
Jan 22	2	Initial Research proposal draft development
Jan 24	2	Research on React integration with ASP .NET backend
	2	Continued Research proposal development
Jan 25	2	Continued Research proposal development
Jan 26	1	Finalize research proposal and submission
Jan 27	3	reviewed submitted proposal and feedback with Professor and Modifications on data collection strategy
Jan 29	4	Resolved issue on JWT authentication and protected API access. Corrected postman authorization configuration
Feb 02	2	Moved .gitignore to repository root and cleaned tracked artifacts
Feb 04	3	Initial Farmvendor frontend sketches creation and planned react component structure Download necessary react dependencies
Feb 05	2	Resolved errors on installation issues with Node.js and npm.

Feb 08	3	Completed login.jsx, register.jsx, FarmerDashboard.jsx, App.jsx and dashboard css stylings and modified App.jsx routing
Feb 09	5	completed VendorDashboard.jsx and modified App.jsx routing Upload modified proposal on GitHub repository Updating work log on progress report 1 Initial checking worklog excelsheet on GitHub Progress report 1 checking on GitHub repository

### Description of Work done

During this period, I finalized the FarmVendor applied research concept and completed the initial backend and frontend foundations of the project. I successfully completed ASP.NET Core Web API using SQL Server LocalDB and implemented ASP.NET identity with role-based authentication. Farmers and vendors roles configured for JWT authentication and validated through Postman after multiple token-handling issues.

On the frontend I initialized a react application using Vite, resolved Node.js and npm dependency issues and completed core UI components including login, registration, farmer dashboard and vendor dashboard with responsive styling. I updated project proposal with data collection strategy according to instructor feedback.

The next phase of work will focus on integrating frontend components with backend APIs and implementing data collection, forecasting and optimization.

### Repo Check in of Implementation completed

The following implementation work has been checked into the GitHub repository under implementation folder:

- FarmVendor.Api
  - ASP.NET Core Web API project
  - ASP.NET Identity configuration with Farmer and Vendor roles
  - JWT authentication and authorization setup
  - Controllers for authentication and protected endpoints
  - Entity Framework Core integration with SQL Server LocalDB
- farmVendor-web
  - React frontend project created using Vite
  - Login and registration components
  - Farmer and Vendor dashboard components

- Responsive dashboard CSS styling
  - Application routing configuration
- DocumentsAndReports
  - Updated research proposal
  - Progress Report1
  - Worklogs excel sheet

- **AI Use Section**

AI Tool Name	Version, Account Type	Specific feature for which the AI tool was used	Value Addition What value did you add over and above what AI did for you?
ChatGPT	Free version	Research on existing tools for farm vendor management	Critical review while refinement of idea while focusing missing features from existing tools
		System backend design guidance	Developed my own backend activities
	4,Premium	<ul style="list-style-type: none"> <li>● Guidance on ASP.NET Core Identity and JWT authentication</li> <li>● Debugging JWT authorization and Postman configuration</li> <li>● React component structure and dashboard UI design</li> </ul>	I reviewed and updated all AI-generated suggestions, implemented the code manually, resolved environment specific issues independently, and validated all functionality through testing and debugging.

## **Appendix**

Prompt history and AI interaction logs are maintained separately and available if required.