**Project Charter: Inventory Management Application**

Project Name: Inventory Management Application

Project Owner: Shannon Musgrave

Created: June 3, 2025

Version: 1.0

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| Item | Response |
| Business Case/Vision | The Inventory Management Application addresses the need for small businesses and individuals to efficiently track and manage inventory items on mobile devices. By providing a user-friendly Android application with both local and remote database capabilities, the app enables users to monitor inventory levels, receive low-quantity alerts, and maintain secure user authentication. |
| Mission Statement | The mission of the Inventory Management Application is to provide a reliable, scalable, and user-centric platform that simplifies inventory tracking for small businesses and individuals. By integrating local SQLite and remote SQL Server databases with a clean Android interface, the application ensures accurate inventory data, secure user access, and timely notifications. |
| Project Team (members and roles) | Project Owner: Shannon Musgrave  Lead Developer: Shannon Musgrave  Data Specialist: TBD  UI/UX Designer: TBD  Quality Assurance: TBD |
| Success Criteria | Users can register and log in securely with SHA-256 hashed passwords.  Users can create, read, update, and delete (CRUD) inventory items.  Application supports both local SQLite and remote SQL Server databases, with seamless toggling between modes.  Low-quantity alerts (quantity = 0) are displayed via Toast notifications.  Finish by deadline. |
| Key Project Risks | Security Vulnerabilities – High  API Connectivity – Medium  Data Loss during Migrations - Medium  Incompatible Android Devices – Low |
| Rules of Behavior (values and principles) | Open communication  Respect all ideas  Prioritize quality  Take ownership of responsibilities/tasks  Use professional language  Actively listen  Follow all team coding standards  Commit code with descriptive messages  and document all code  Code must be pushed to GitHub as it is developed for collaborator review  Perform reviews weekly |
| Communication Guidelines | Utilize Microsoft Teams group chat, avoid sidebars  Respond to requests within 1 business day  Disagree respectfully with others  Utilize GitHub Discussions boards for conversations involving multiple teams  Avoid vague replies such as, ”this won’t work” offer alternatives or well thought out responses |