**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.  Finished 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  Professional language  Actively listen  Follow all team coding standards  Commit code with descriptive messages  Document all code  Perform code 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 broad conversations  Avoid vague replies such as, ”this won’t work” |