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Sprint 7 Documentation – Secondary Feature Implementation

Sprint Goal

Focusing on implementing the secondary features of the SHEGuard Android Application, making sure that they meet the defined requirements and design specifications.

Scope and Objectives

* Complete user stories related to secondary features
* Write unit tests to make sure of code quality and functionality
* Integrate implemented components and conduct integration testing

Work Completed

1. **Unit Testing**

**AuthTest Class**

* Created under the **androidTest** directory.
* Required changing certain methods to **public** (approved by development team in Sprint 6) to allow testing.
* Tests focus on authentication-related secondary features.

**SettingsRepoTest Class**

* New integration test class for the **settingsRepo** component.
* Validates correct data handling and storage within the settings repository.

**EventTrackingOperations**

* Attempted to create a unit test for this component.
* Encountered errors during execution; root cause not identified within sprint timeframe.
* Test code commented out for future debugging.

**2. Testing Constraints**

* Due to the Firebase ecosystem integration, all tests were implemented in the **androidTest** folder rather than the **Test** folder.
* The complexity of certain classes restricted the ability to create additional unit tests within the sprint.

**Integration & Verification**

* Integrated tested components into the application build.
* Conducted integration testing for **settingsRepo** to make sure of straightforward interaction with other modules.

**Challenges & Blockers**

* **Complexity of Classes**: Some classes were too complex to test effectively within the sprint.
* **EventTrackingOperations Errors**: Unresolved execution errors prevented completion of its unit test.