**Creating user stories from epic:**

create user stories for the epic with description" Connect the ios and android mobile application to a surgical microscope available in the wi-fi and view the live stream " ,provide user stories, acceptance criteria and estimations also

GitHub Copilot

**Epic: Connect Mobile Application to Surgical Microscope for Live Streaming**

Description:

As a user, I want to connect the iOS and Android mobile application to a surgical microscope available on the Wi-Fi network and view the live stream.

**User Stories:**

**User Story 1: Discover Microscope on Wi-Fi Network**

Description: As a user, I want the mobile application to discover the surgical microscope on the Wi-Fi network so that I can connect to it.

Acceptance Criteria:

The application must scan the Wi-Fi network for available surgical microscopes.

The application must display a list of discovered microscopes.

The user must be able to select a microscope from the list to connect.

Estimation: 5 story points

**User Story 2: Connect to Microscope**

Description: As a user, I want to connect to the selected surgical microscope so that I can start the live stream.

Acceptance Criteria:

The application must establish a connection to the selected microscope.

The application must handle connection errors and display appropriate messages.

The user must be notified when the connection is successfully established.

Estimation: 3 story points

**User Story 3: View Live Stream**

Description: As a user, I want to view the live stream from the connected surgical microscope on my mobile device so that I can monitor the procedure.

Acceptance Criteria:

The application must display the live video feed from the microscope.

The video stream must be in real-time with minimal latency.

The user must be able to view the stream in both portrait and landscape modes.

Estimation: 8 story points

**User Story 4: Control Stream Quality**

Description: As a user, I want to control the quality of the live stream so that I can adjust it based on my network conditions.

Acceptance Criteria:

The application must provide options to adjust the stream quality (e.g., low, medium, high).

The user must be able to change the stream quality during the live session.

The application must display the current stream quality.

Estimation: 5 story points

**User Story 5: Disconnect from Microscope**

Description: As a user, I want to disconnect from the surgical microscope so that I can end the live stream.

Acceptance Criteria:

The application must provide an option to disconnect from the microscope.

The application must terminate the live stream upon disconnection.

The user must be notified when the disconnection is successful.

Estimation: 3 story points

**User Story 6: Handle Connection Loss**

Description: As a user, I want the application to handle connection loss gracefully so that I am informed and can take appropriate action.

Acceptance Criteria:

The application must detect when the connection to the microscope is lost.

The application must display an error message indicating the connection loss.

The user must be provided with options to retry the connection or exit the stream.

Estimation: 5 story points

These user stories break down the epic into specific, actionable tasks that can be implemented and tested individually, along with their acceptance criteria and estimated effort.

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