# MediAid Project – Phase 2 Report

Title: IntelliJ Transition and JavaFX Launch

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Date: August 02, 2025

## Summary

This report documents the successful completion of Phase 2 of the MediAid project. It begins from the point immediately after Git integration and new device setup, as detailed in the Phase 1.5 report. Phase 2 centers around transitioning development from Visual Studio Code to IntelliJ IDEA, configuring JavaFX for runtime and build compatibility, fixing module/classpath issues, and launching the first working GUI window.

## Process Activities

### JavaFX IDE Migration

- Transitioned the project from Visual Studio Code to IntelliJ IDEA.  
- Imported existing Git-tracked project folder directly into IntelliJ.  
- Verified and selected Project SDK: Eclipse Temurin JDK 21.

### JavaFX SDK Configuration

- Cleaned old `.jar` structures and re-downloaded JavaFX SDK 21.0.8.  
- Created a dedicated `lib/` folder in the project root.  
- Added all required JavaFX modules (`javafx.controls`, `javafx.fxml`, etc.) to `lib/`.  
- Added JavaFX `.jar` files to Project Libraries in IntelliJ.  
- Ensured all required native `.dll` files were placed inside `lib/bin/`.

### IntelliJ Run/Debug Configuration

- Set VM options to use both classpath and module-path:  
 `--module-path lib --add-modules javafx.controls,javafx.fxml -classpath classes/production/Ma -Dprism.order=sw -Djava.library.path=lib/bin`  
- Ensured working directory was set to project root.  
- Main class specified as `mediAid.Main` after restructuring package names.

### Compiler Error Resolution

- Fixed `ClassNotFoundException` by correcting package paths and folder structure.  
- Marked `src/` as Sources Root in IntelliJ.  
- Added all JavaFX `.jar` files to project libraries to allow IntelliJ to compile.  
- Removed incorrect `main.java.mediAid` folder nesting.

### Runtime and Rendering Issues

- Resolved `JavaFX runtime components are missing` by enabling `--module-path`.  
- Resolved `QuantumRenderer` error by adding `-Djava.library.path=lib/bin`.  
- Verified presence of native `.dll` files: `prism\_sw.dll`, `glass.dll`, etc.

### Final Confirmation

- GUI successfully launched.  
- JavaFX Scene was displayed with title 'MediAid System' and label 'Welcome to MediAid'.  
- This marks the end of the IntelliJ + JavaFX boot sequence.  
- All changes committed and pushed using Git Bash.

This report builds on the foundation laid in Phase 1.5 and confirms MediAid is now IntelliJ+JavaFX operational.