

# Progress Report #2

## Work Date/Hours Logs

Date	Number of Hours	Work Done
Sept 26, 2025	2	Started designing XML layouts for NutrevoApp activities, including calorie calculator and routine tracker screens.
Sept 28, 2025	2	Continued designing layouts; refined structure, margins, and padding for user-friendly interfaces.
Sept 30, 2025	1.5	Completed UI components for calorie calculator screen (spinners, buttons, TextView).
Oct 2, 2025	2	Implemented basic backend functionality for login in Login.java and database setup in UserDatabase.java.
Oct 4, 2025	2	Developed Java logic for calorie calculation in CalorieCalculatorActivity.java; connected spinners to calculation function.
Oct 6, 2025	2.5	Tested integration between layouts and backend; fixed minor bugs and layout alignment issues.
Oct 8, 2025	2	Finalized all layouts and backend logic developed in this period; verified that login and calorie calculation work correctly.

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## Description of Work Done

During this period, I focused on designing new layouts and implementing backend functionality for my project. Specifically:

- **Layouts Designed:**
  - Calorie calculator screen (calorie\_calculator.xml)
  - Routine tracker screen (activity\_routine.xml)
  - BMI Calculator screen (bmi\_calculator.xml)
  - Health tip screen (health\_tip.xml)

These layouts include spinners, buttons, input fields, and TextViews, with proper styling, alignment, and padding to create a clean and user-friendly interface.

- **Backend Work:**

- Implemented **login logic** in Login.java and database connection in UserDatabase.java.
- Implemented **calorie calculation functionality** in CalorieCalculatorActivity.java, including logic to calculate total daily calories based on user selections from spinners.
- Integrated backend with layouts and tested navigation and functionality.

This period focused on completing **core UI for specific screens and functional backend features**, preparing the app for further development in the next period.

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## **Repo Check-in of Implementation Completed**

### **Layout XML Files (designed in this period):**

/Implementation/app/src/main/res/layout/ calorie\_calculator.xml

/Implementation/app/src/main/res/layout/ routine.xml

/Implementation/app/src/main/res/layout/ health\_tip.xml

/Implementation/app/src/main/res/layout/ bmi\_calculator.xml

### **Java Source Files (implemented in this period):**

/Implementation/app/src/main/java/com/example/nutrevoapp/Login.java

/Implementation/app/src/main/java/com/example/nutrevoapp/UserDatabase.java

/Implementation/app/src/main/java/com/example/nutrevoapp/CalorieCalculatorActivity.java

These files are committed to the repository. The **layouts and backend functionality implemented during this period** are now complete and tested.