**Criterion B: Design**

Yes

Exits Program

No

Home Button Pressed?

No

Exits Program

Yes

Home button pressed?

User types in data from run and saves data

Display Previous Runs page with data.

Display Log a Run

page

Yes

No

Exits Program

Exits Program

Start Menu

No

Yes

Log a Run button pressed?

Previous Runs button pressed?

**Design Overview**

Classes Required

* Java
  + Startscreen (as main class)
  + DatabaseAdapter (database to hold and retrieve data)
* XML
  + Startscreen
  + Previous runs (view past data)
  + Log a Run (enter data)

Variables Required:

String: Date, place, duration, distance, description

Extensibility:

Instead of allowing the user to manually enter data, there can be a GPS feature that tracks the user’s run and automatically stores the run into the database. Also, there can be a social interface in which users can create a profile and upload their runs. From there, other uses in the general area of the runner can view the run and route. Other runner s can see what other runners have run. Also, Instead of estimating the number of miles run on a single day, I could extend this small part of the application by importing the Google Maps API and allow the user to draw a route and the calculator would automatically calculate how many miles that route is and put that into the database.

This application can be maintained by a third party by creating a “report a problem” feature. In the settings menu of the application, I can make a “report a problem” button that allows the user to report a problem (or suggestion) for the application