



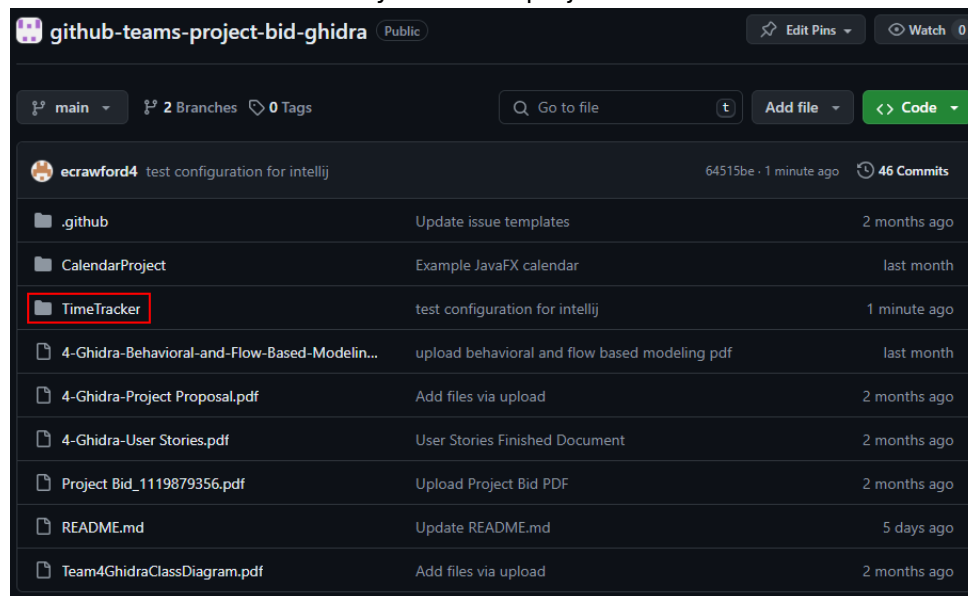
# User Manual

## Product Description

TimeTracker is a desktop-based calendar application. It allows users to track complex schedules by creating events and gives the users the ability to import and export existing schedules. TimeTracker is incomplete and requires an integrated development environment that implements Java programming language such as Eclipse or IntelliJ.

## Product Installation

1. Install the latest version of Eclipse, IntelliJ or another IDE that implements Java.  
(This user manual provides instructions on how to run the project in Eclipse or IntelliJ)
  - <https://www.eclipse.org/downloads/>
  - <https://www.jetbrains.com/idea/download/>
2. Clone the github repository for TimeTracker.
  - <https://github.com/Sanmeet-EWU/github-teams-project-bid-ghidra>
3. Browse the TimeTracker directory to see the project structure..



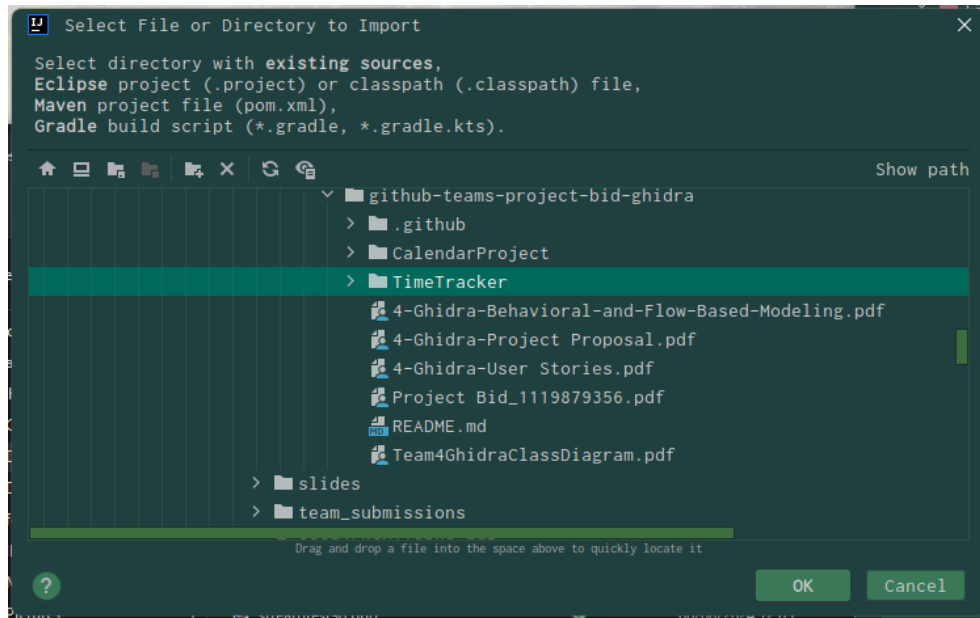
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*IDE specific project setup information  
for IntelliJ users and Eclipse users  
is provided in the following pages:*

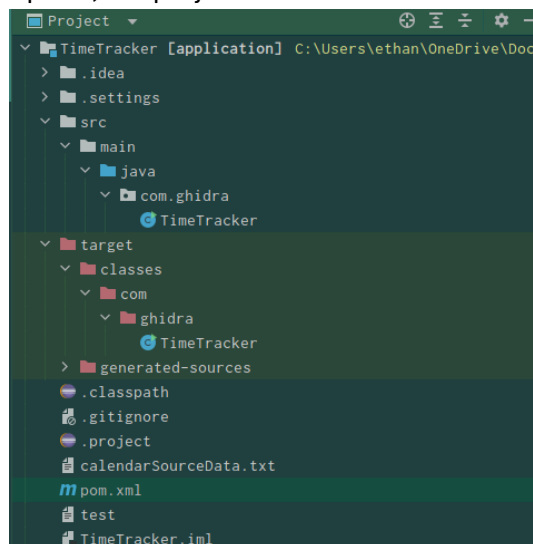
4. Import TimeTracker into the installed IDE.

a. IntelliJ:

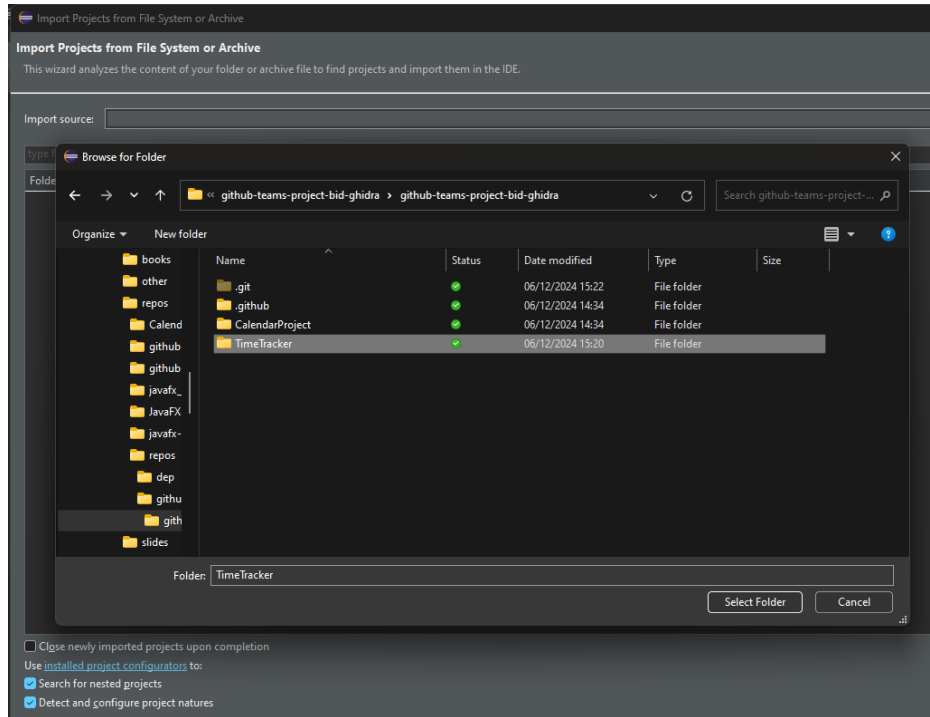
- i. Select: File > New > Project from existing sources...
- ii. Select the TimeTracker directory and press OK



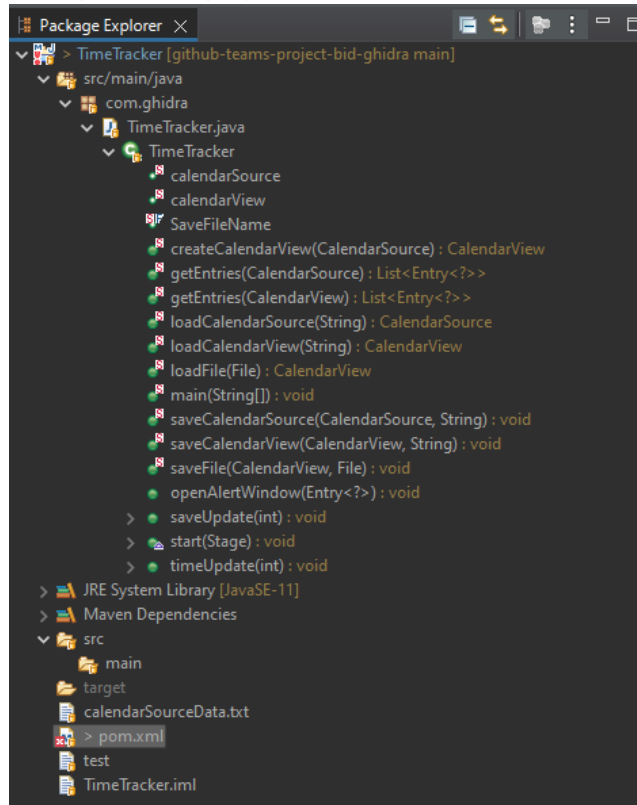
- iii. Select “Import Project from External Model” then press “Create”
- iv. If necessary, mark the TimeTracker/src/main/java folder as sources root.
- v. Build the project using maven:-
  1. Right click on pom.xml in the project pane
  2. Expand “Maven”
  3. Select “download sources”
  4. Repeat steps 1 and 2
  5. Select “Generate sources and update folders”
- vi. At this point, the project structure should look like this



- b. Eclipse:
- Select File > Open Projects from File System...
  - Select the TimeTracker directory:



- Press “Select Folder,” then press “Finish”
- At this point, the project structure should look like this:



- v. Right click pom.xml, Select: Run As > 3 Maven generate-sources
- vi. Make sure src/main/java is set as the source folder
- vii. Add the missing JavaFX modules as described below

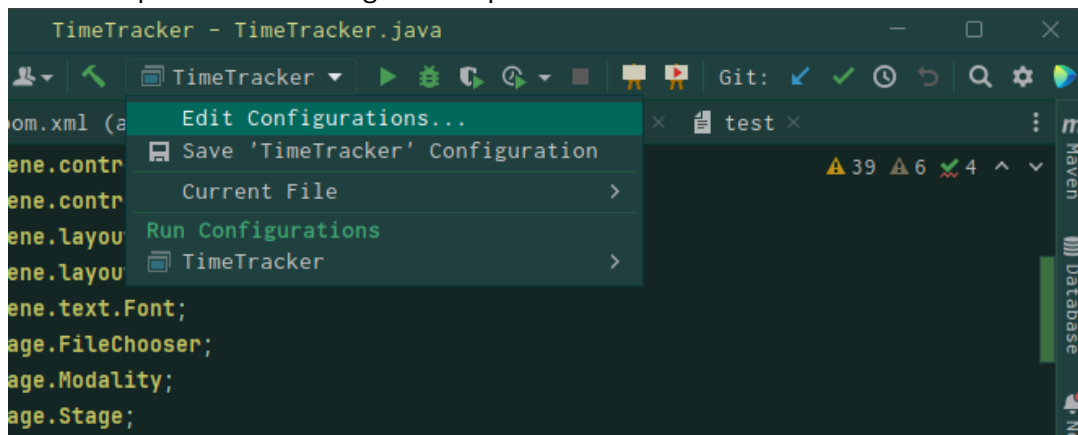
## Product Execution

1. Open the directory src/main/java/com/ghidra
2. Open TimeTracker.java
3. Run the program

## Product Troubleshooting

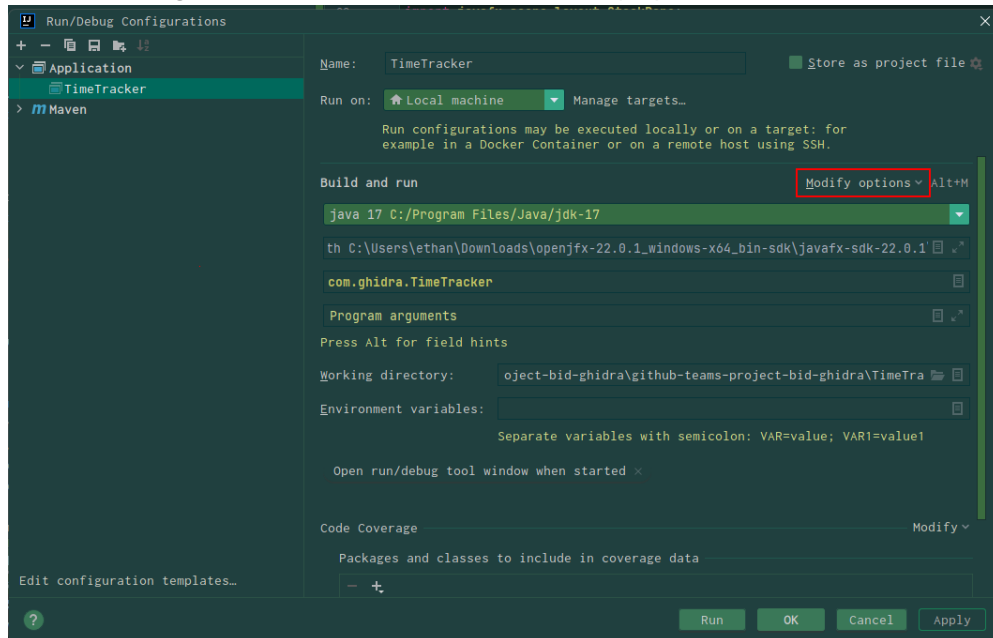
There has been a significant, persistent problem with the maven build; the required JavaFX runtime components are not indexed by maven, and the use of this project in an IDE requires the manual installation of the JavaFX JARs.

1. Download JavaFX
  - a. <https://gluonhq.com/products/javafx/>
2. For IntelliJ users:
  - a. Open the Run Configurations pane as shown below:

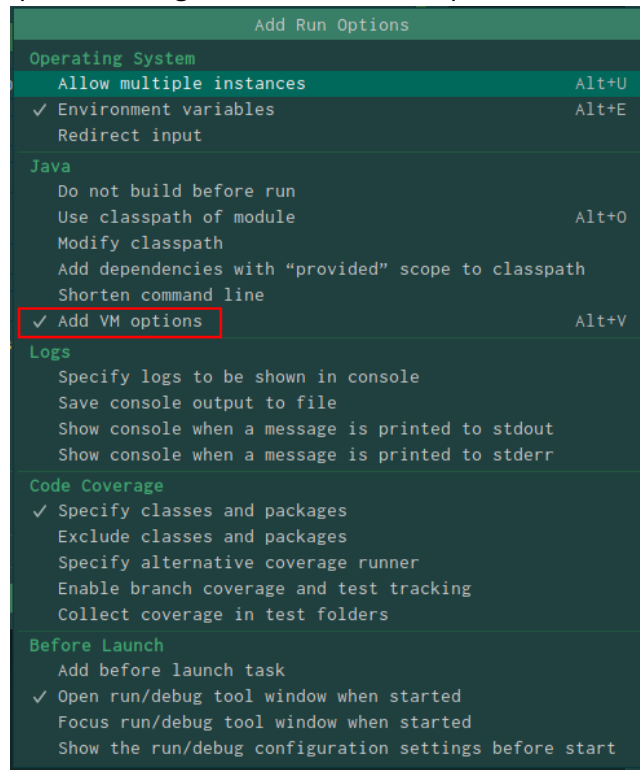


- b. Select “Edit Configurations...”
- c. If there is no run configuration:
  - i. Add a new “application” run configuration
  - ii. Name your run configuration (perhaps “TimeTracker”)
  - iii. under Build and Run, select your JDK, and add the class name (com.ghidra.TimeTracker)
  - iv. Ensure that the working directory is correct

d. To the right of “Build and run” select “Modify options”



e. In the dropdown dialogue, “select Add VM options”



f. Add the following to your vm options, being sure to replace the underlined path with the correct path to your JDK:

i. `--module-path path\to\javafx-sdk-22.0.1\lib --add-modules javafx.controls,javafx.fxml`

ii. Confirm that your run configuration looks like the run configuration in d.

g. After adding the VM option, the project should run.

### 3. For Eclipse users:

- a. Select “Windows” and select “Preference”
- b. Search “User Libraries” and select New
- c. Create a User Library for JavaFX and click “Add External JARs...”
- d. Select all jar in lib folder in JavaFX
- e. Add JavaFX Library into project modules.
- f. Go into “Run As” and select “Run Configuration”
- g. Go into the “Argument” tab and click on “VM Arguments”
- h. type “--module-path path\to\javafx\lib --add-modules javafx.controls,javafx.fxml”  
Replace the underlined path with the correct path to the JavaFX lib folder.

## Product Usage

TimeTracker provides the users with various features to keep a tidy schedule. By double clicking on the days in the calendar page, a new entry is created in which you can write the name, location, start and end time and dates as well. The time can be adjusted to the minute and the date can span multiple days. Furthermore, to save data regarding the schedule such as the entries planned, TimeTracker saves the data into a file named “calendarSourceDate” every ten seconds. Also, TimeTracker allows for the user to export and import these save files. When exporting, the location and name can be chosen; and when importing save files, the entries are added to the current schedule not overridden allowing the user to compile multiple schedules together. When launched, if the start date for an entry is the same as the current date, an alert window pops up with the relevant information regarding the entry.

## Contact Information

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