Portal Chess Development Manual

Unspecified Behavior  
CS414-f20

Contents

[Game 3](#_Toc55141172)

[Eclipse 3](#_Toc55141173)

[Source Files 3](#_Toc55141174)

[IDE 3](#_Toc55141175)

[Create project 3](#_Toc55141176)

[Configure project 4](#_Toc55141177)

[Create Package 5](#_Toc55141178)

[Add files to project 5](#_Toc55141179)

[Compile & run 6](#_Toc55141180)

[Run JUnit tests 7](#_Toc55141181)

[Deploy to Localhost 7](#_Toc55141182)

[Tools 8](#_Toc55141183)

[Important Notice 8](#_Toc55141184)

[npm 8](#_Toc55141185)

[Webpack 8](#_Toc55141186)

[Material UI & Reactstrap 8](#_Toc55141187)

[Database: MariaDB 8](#_Toc55141188)

# Game

The game logic is implemented using Java

## Eclipse

### Source Files

Download source files from github

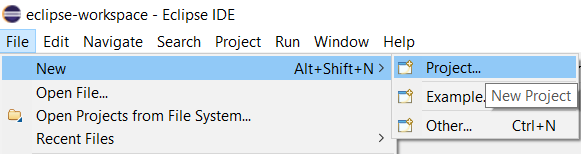
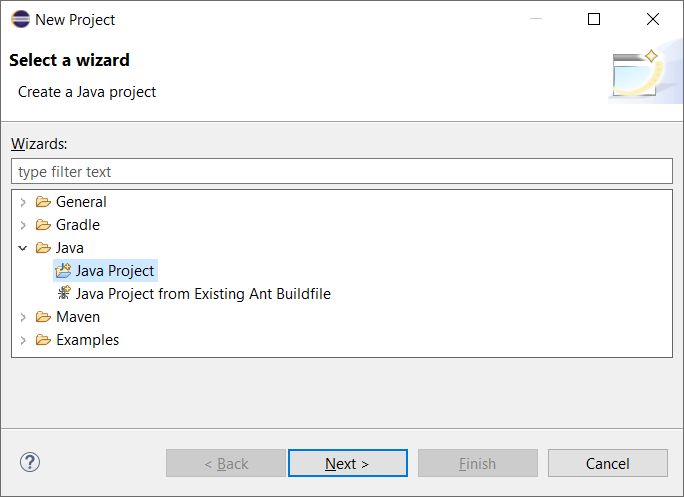
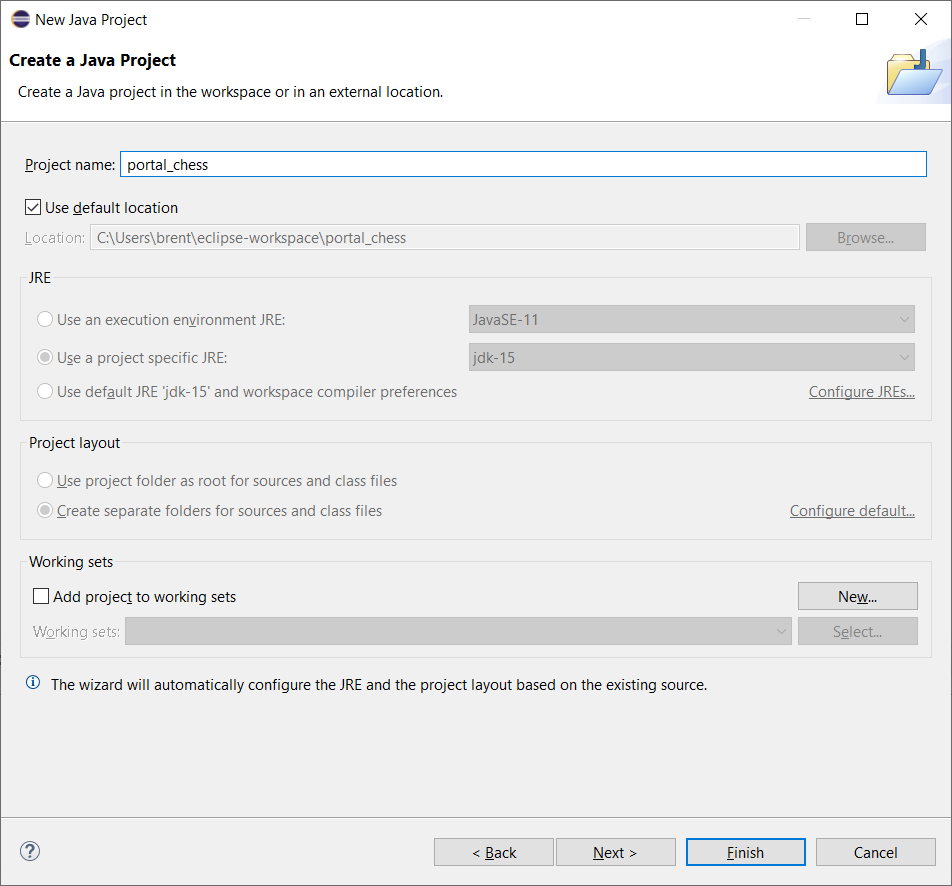
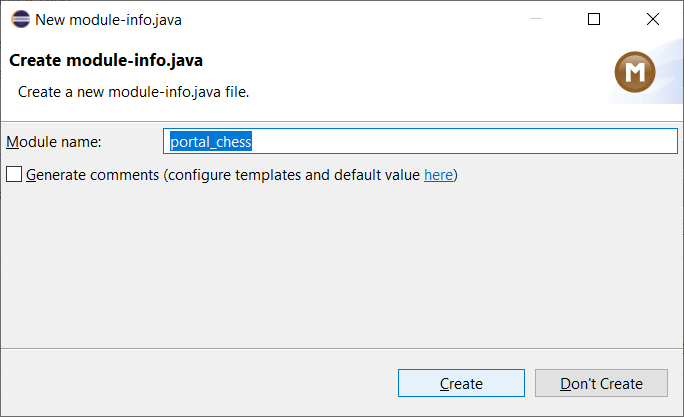
‘git clone https://github.com/bstaab/cs414-f20-UnspecifiedBehavior.git’

IDE

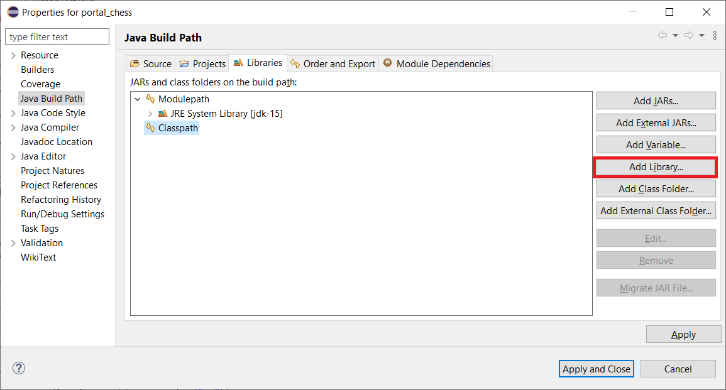
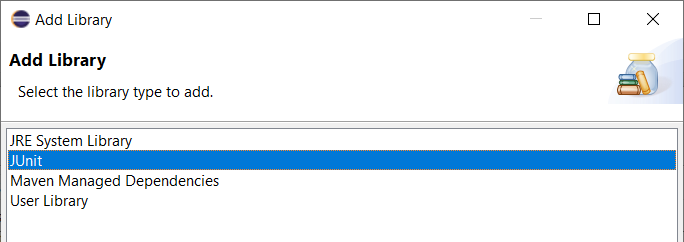
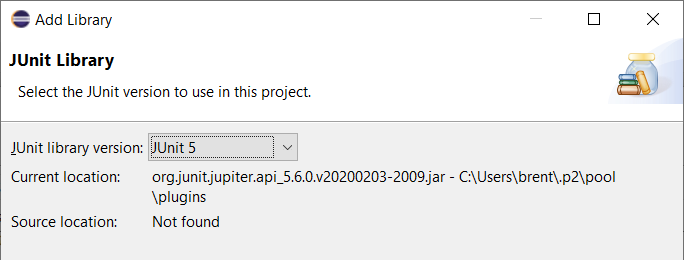
Download Eclipse IDE from the official download [link](https://www.eclipse.org/downloads/) and install

Version ‘2020‑09 R’ is used in this manual

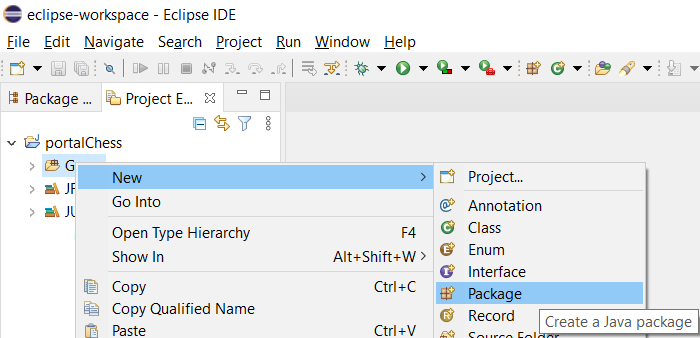
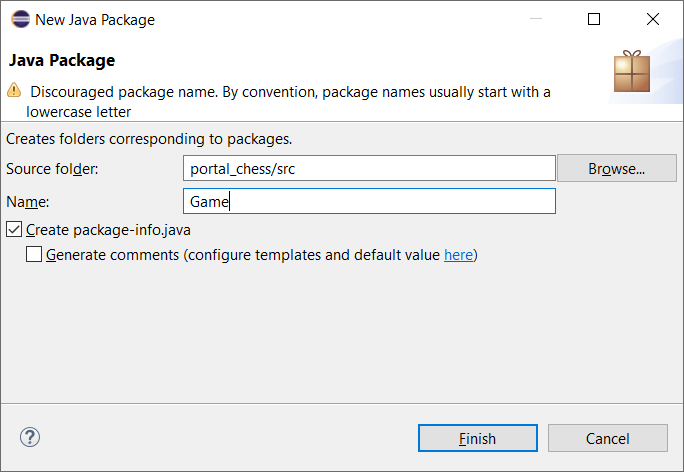
### Create project

* File->New->Project  
  
  + Select ‘Java Project’ then ‘Next >’  
    
  + Set project properties
    - Project Name: portal\_chess
    - JRE – ‘Use a projectct specific JRE:’ – jdk-15
    - Create separate folders for sources and class files
    - Click ‘Finish’  
      
  + Module name: portal\_chess  
    

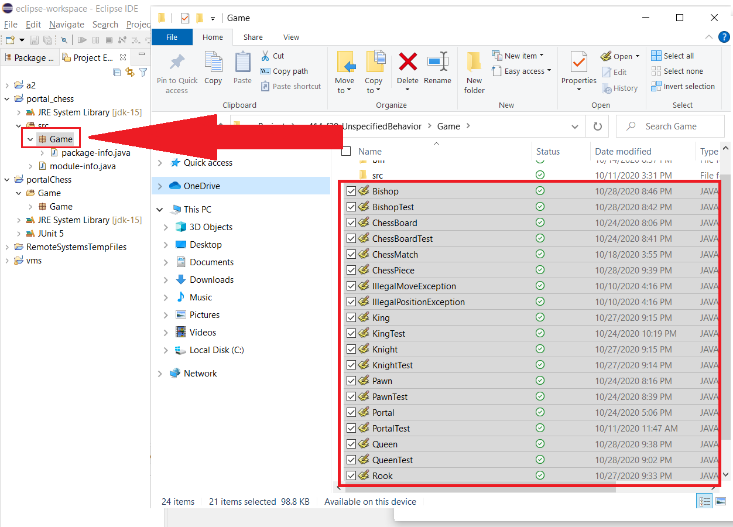
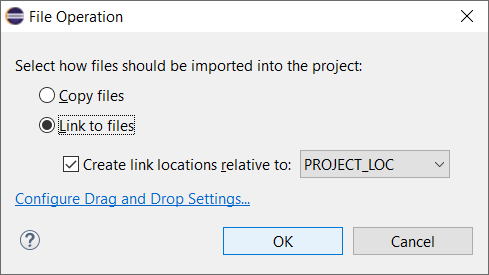
### Configure project

* Delete the module-info.java file
* Add JUnit to build path  
    
  + Select JUnit   
      
    - Select JUnit 5  
      

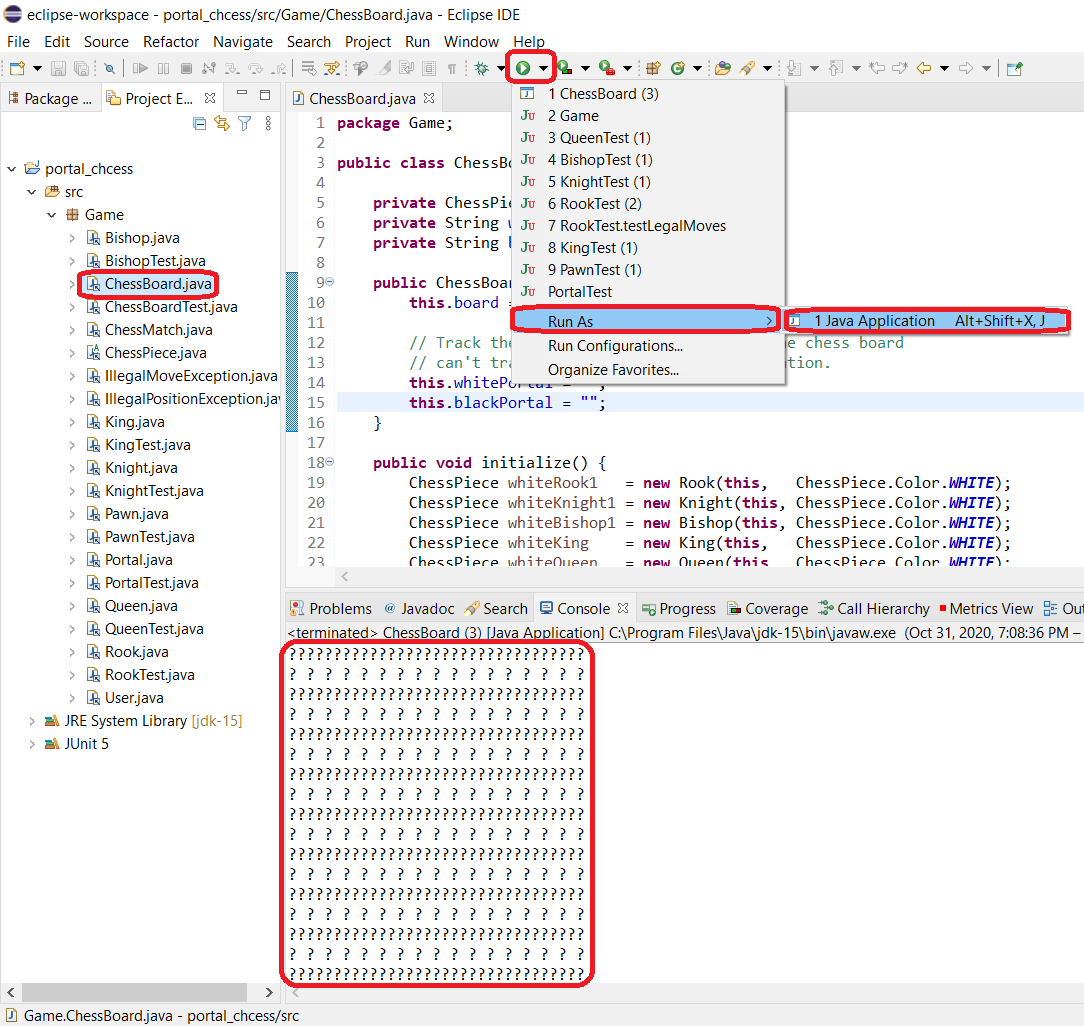
### Create Package

* Right click on the portal\_chess project, select New then Package  
  
  + Source folder: portal\_chess/src  
    Name: Game  
    

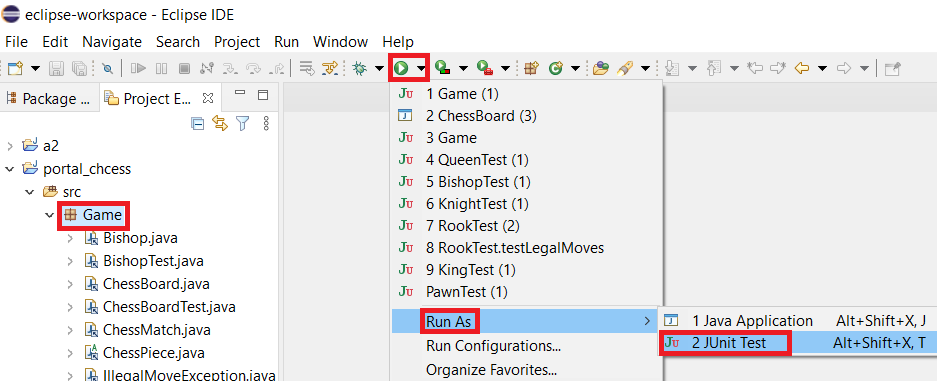
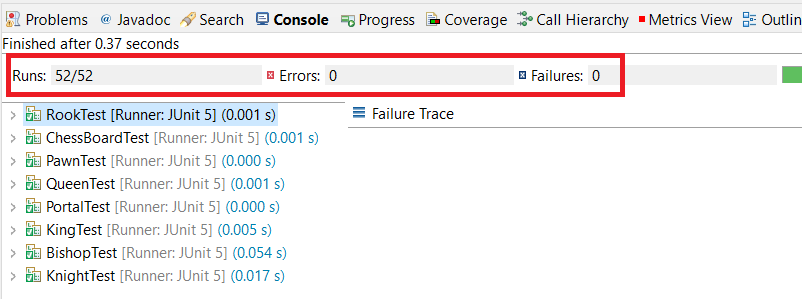
### Add files to project

* Using file explorer, browse to the files downloaded from git  
  Click and drag into the portal\_chess/src/game/folder  
    
    
    
  + Select “Link to files”  
    This will link to the original source files rather than making a new copy. Any changes you make will show up in git  
    

### Compile & run

* Select ChessBoard.java
* Select the down arrow highlighted at the top of the screen
* Select Run As -> Java Application
* In the ‘Console’ window at the bottom, you should see a chess board where the lines are displayed as ‘?’  
  

### Run JUnit tests

* Select the ‘Game’ package
* Select the down arrow highlighted at the top of the screen
* Select Run As -> JUnit Test  
  
  + The results will be in the console window at the bottom  
    

### Deploy to Localhost

* In the terminal run the command: **npm start**
  + This will the deploy the webpage
* If the website is not automatically deployed, you can click the link in the terminal

Text

Description automatically generated

* Once the website is deployed you should see the login page

A picture containing object, indoor, table, person

Description automatically generated

# Tools

### Important Notice

* Once you have the source code cloned from the GitHub repository make sure to run **npm install** to make sure all the correct dependencies are installed.

### npm

* We are using npm instead of yarn. Make sure that npm and Node.js are installed. In order to do so:

Timeline

Description automatically generated

* If they are not installed you can go to this website: <https://www.npmjs.com/get-npm>
  + Once on the website you can download Node.js and npm

### Webpack

* We are using webpack as our module bundler in order to deploy the website
* In order to install webpack you must run:



### Material UI & Reactstrap

* For the front-end development and design, we are using a combination of Reactstrap and Material UI.
* To install Reactstrap:



* To install Material UI



### Database: MariaDB

* Hostname/Endpoint:
  + cs414-db.cuboxgv8ds8p.us-east-1.rds.amazonaws.com
* Port: 3306
* Login:

Graphical user interface, text, application, email

Description automatically generated

* Linux Command:
  + mysql -h cs414-db.cuboxgv8ds8p.us-east-1.rds.amazonaws.com -P3306 -u admin –p