Meeting 1

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#### JAVA Game development framework:

https://libgdx.badlogicgames.com/

Requirements:

### General mandatory functional Requirements to the games

- 1. Authentication using an username and a password, via a database.
- 2. The score of each play should be recorded in a database.
- 3. At the end of each play, the user should be able to enter his/her name together with the recorded score.
- 4. At the end of each play, the game should show the top 5 scores that have ever been recorded.

And some mandatory non-functional requirements;

- 5. Use SQL and JDBC driver
- 6. Use prepared statements in Java to avoid code-injection vulnerabilities

A database you can get a free MySQL database via https://projects.ewi.tudelft.nl or you can also use a SQLite database. In case you strongly prefer another database type

#### Bubble spinner:

Functional requirements:

### Must-haves:

- 1. shooting (randomized) ball (must-have)
- 2. first makes the collision of the balls work (must-have)
  - a. no ball disappear
  - b. ball disappear → score up
- 2. timer (must-have)
- 3. score (must-have)
- 4. win (must-have)
- 5. losing (must-have): one ball hits the edges
- 6. a database with username and password (+)

- 7. rotation of the arrow following the control of the mouse
- 8. At the end of each play, the game should show the top 5 scores that have ever been recorded
- 9. then make the graph spinning properly (must-have)
- randomize the first graph of balls and the color of the shooting balls (must-have)

### GUI:

1. Separate pages for login gui (+ must have), start page(+), leaderboard(+), games(+), sign-ups(+).

# Should-haves:

- 1. GUI: game rules
- 2. Five different colors of balls
- 3. Difficulty game levels: different number of ball colors
- 4. Different scoring systems: e.g. 100 points for 5 balls once and 50 points for 3 balls once.
- 5. Simple achievement system: e.g. play 5 difficulty level in one role

## Can-haves:

- 1. Add friends and comparison scores between friends
- 2. User's levels based on their score
- 3. More complex achievement system

### Non-functional requirements:

- 1. Java
- 2. SQL
- 3. libgdx is JAVA Game development