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## Group assignment 1

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PRÓUN HUGBÚNAÐAR  
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*Students:* (Group F2a)

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# 1 Project plan

In this document there's the project plan for group F2a. Group members are: Einar Helgi Þrastarson (personal ID number: 110287-2919), Hannes Pétur Eggertsson (240889-2939) and Sigurður Birkir Sigurðsson (120589-2539). The project involves creating an UI for a fantasy football game. The presenter for this planning on Wednesday will be Einar Helgi.

## 2 User stories

User stories were split among three 2-week long iterations.

### 2.1 Iteration 1 (14,5 days of work planned)

■ As a user, I want to have money or at least have some countable currency, to buy players. ■

**1,5 days, Priority: 10**

**Tasks:**

- a) Create a object that keeps track of ow much money users have. (1 day)
- b) Figure out a reasonable starting sum of money for players depending on the average price of a football player. (4 hours)

■ As a user, I want to be able to choose and buy players for my roster, to create my team. ■

**4 days, Priority: 10**

**Tasks:**

- a) Create visual system for displaying football players. (1 day)
- b) Give user a list of available players. (1 day)
- c) Implement a buy/sell system for football players. (1,5 days)
- d) Prevent user from having too many football players their team, and limit how many are allowed for each position. (4 hours)

■ As a user, I want to have an interface. ■

**1 day, Priority: 10**

**Tasks:**

- a) Create basic user interface in Java Swing. (4 hours)
- b) Setup basic layout. (4 hours)

■ As a user, I want to have some kind of visual system to manage my roster, makes managing my team easier. ■

**2 days, Priority: 10**

**Tasks:**

- a) Create the roster management layout. (1 day)
- b) Add to the layout the football players of the roster. (1 day)

■ As a user, I want to be able to exchange football players after each round, if their performance is not to my liking. ■

**3 days, Priority: 20**

**Tasks:**

a) Add a sell functionality to the football players a user owns.

**(2 days)**

b) Add sell button next to the football player in the roster manager.

**(4 hours)**

c) Add ability for users to buy new football players in the roster manager if their team is not full.

**(4 hours)**

■ As a user, I want to be able to end my turn, to keep the game going. ■

**1 day, Priority: 20**

**Tasks:**

a) Create a button that makes the game simulate the next round.

**(1 day)**

■ As a user, I want to have a point system, to value and see my progress. ■

**1 day, Priority: 20**

**Tasks:**

a) Request the simulation for the points of all football players and hold onto them in an scores object.

**(6 hours)**

b) Do a summary of the points.

**(2 hours)**

■ As a user, I want to see the points I get and the points each football player gets, to get detailed progress of my roster. ■

**1 day, Priority: 30**

**Tasks:**

a) Get points from the scores object and display on screen.

**(4 hours)**

b) Create layout for the points on screen.

**(4 hours)**

## 2.2 Iteration 2 (14 days of work planned)

■ As a user, I want the game to be multiplayer, so the game can be played with friends. ■

**4 days, Priority: 20**

**Tasks:**

- a) At the start of each game, add a frame/window to add users.  
(2 days)
- b) Update code to handle more than one users (if needed).  
(2 days)

■ As a user, I want to be able to substitute football players on the field if they get injured, to keep uninjured players on the field. ■

**1 day, Priority: 50**

**Tasks:**

- a) Create a function that will check for injured football players.  
(4 hours)
- b) Let users know football player is injured.  
(4 hours)

■ As a user, I want to see a scoreboard with statistics when the round is finished, makes it more fun when competing against other people. ■

**4 days, Priority: 30**

**Tasks:**

- a) Create an object that holds together all scores from all users.  
(1 day)
- b) Create an object that holds together all results and key events in matches.  
(1 day)
- c) Create a function that can show user graph of scores.  
(1 day)
- d) Create an interface to show the above tasks.  
(1 day)

■ As a user, I want to be able to search for football players from available pool, to make choosing them easier. ■

**4,5 days, Priority: 50**

**Tasks:**

- a) Create a basic search UI, with a search field and results area.  
(2 days)
- b) Ability to search football players by name.  
(2 days)
- c) Ability to search by football player attribute.  
(2 hours)
- d) Ability to search by team name.  
(2 hours)

■ As a user, I want to choose a team captain and I want him to get points depending on my roster performance, this might benefit my roster. ■

**4 hours, Priority: 50**

**Tasks:**

a) Create an attribute in the roster manager for the captain.

**(2 hours)**

b) Collect scores from the team and add extra scores for the team captain accordingly.

**(2 hours)**

### 2.3 Iteration 3 (6,5 days of work planned)

■ As a user, I want to be able to choose formations for football players on the field, to have my roster set up the way I like. ■

**4 days, Priority: 60**

**Tasks:**

a) Create an object for the team formations.

**(1 day)**

b) Create UI of the team formations in roster manager.

**(3 day)**

■ As a user, I want to be able to let the game go through more than one round at a time, so I can play the game faster. ■

**4 hours, Priority: 60**

**Tasks:**

a) Create an auto 'end turn' feature.

**(4 hours)**

■ As a user, I want the game to be good looking, have some imagery, makes it more appealing to play. ■

**2 days, Priority: 70**

**Tasks:**

a) Go through every visual part of the game and improve it visually where possible.

**(2 days)**

## 3 Conclusion

Our iterations are 14 days long. Subtracting Saturdays (2 days) and other school homework(5 days) leaves  $\approx 7$  days. Of those, only 70%, i.e.  $7 \cdot 0.7 = 5$  **productive days** can actually be used for the project. We are 3 people on the team, so we can fit at most  $5 \cdot 3 = 15$  **person-days** into an iteration.

So according to our planning we should be able to barely finish the user stories within iteration 1 & 2 where we plan that they take around **14 days** where we plan to have about **15 days** to finish them. In iteration 3 we will spend roughly half of the time implementing the user stories and the other half in integration.