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1. Project Overview incl. system requirements

We started out with discussing, what our project should be. Andreas had a fun game he suggested, and we all agreed on making this. We handed in the following overview and requirements.

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**Abstract:**

Card game for two players and up. You can play for fun, for money or for the glory. A typical game consists of 20 rounds, first round each player is dealt 10 cards, next round each player is dealt 9 cards and so forth until 1 card is being dealt. Then you go from 1 card, to 2 cards and up to 10 cards again, then the game is over. Each round you have to make a prediction as to how many tricks you will get during the round. When everyone has made a prediction, they're revealed. When all cards have been played, each player is given 10 points plus one additional point per trick if they guessed correctly, otherwise they get subtracted one point per trick they're wrong. The player with the most points at the end of the game is the winner. Ace is highest, 2 is lowest. You have to follow suit when possible. Spades are trump (Ace of Spades is a sure trick etc.).

**Requirements (Mandatory):**

» Must model the game "Pirat Bridge".

» Must involve at least two players.

» Must have an interactive user interface.

» Must store player state between games.

» Must accurately model players and non-player/non-card entities relevant to the game.

**Requirements (Secondary):**

» Should be playable over network.

» Should support different rulesets (only minor modifications to the main ruleset).

2. Production of your system analysis

3. Production of your system design

This part of the project is a .bon file, which is on the CD as well.

4. Production and demonstration of the working system

5. Final Project Overview

6. Instructions - installing and in game

**Installing:**

**In game:**

1. Create a new game

- Push the create game button

- Enter your name and press 'change'

- Enter a server name (the name of your game)

- With the keyboard arrows, enter the number of max. players

- Press create game

- In game:

- Press the black box in the right bottom corner and use the keyboard arrows to set your bet and press the bet button.

- It will be displayed in the middle of the table, which player gets the trick.

- As the game consists of 20 rounds, you can press down the tab and see the score of each player in each round.

- In the right upper corner you can see you and your opponents bet and number of tricks.

2. Join a game

- Press the join game button

- Enter your name and press the 'change' button

- If there is no games try to press 'refresh'

- If a game appears click on the game and press 'join game'

3. Read the rules

- Press the 'rules' button

- When finished press the 'back' button

4. Edit settings

- Press the button 'Setting'

- Editing your name, press the old map besides 'player name' and type the wanted name

- Setting the volume of the music, click on the black box and use the keyboard arrows, up and down

- Press apply to use the edited settings or cancel

5. Exit

- Press the 'exit' button

7. Version control repository

The following link is the link to our version control repository: https://github.com/ahkjeldsen/piratespades

8. Reflections

We have fulfilled almost all of our requirements including the secondary's. The only requirement we haven't fulfilled is the requirement with supporting different rule sets - for different occasions (normal mode, party mode etc.) We are overall happy with the program. The game logic, collection and networking part of the system is validated with pex generated unit tests and handwritten unit tests which covers \_\_\_ % of the system. The XNA part of the system is validated by playing the game and checking that everything works as it intended to. One thing we didn't get to implement was safety against cheating. We wrote contracts in the code, but one is able to create a client, start a game with only him in it and crash the system, or the dealer is able to give himself the highest spade. This is some improvements that could be done, if we had more time.