Project planning
Individual project

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Versioning table

V0.1	Creation of document. Added title, versioning table and table of contents.
V0.2	Added backlog which includes user stories 1-6 and some user requirements.
V0.3	Added more user stories and divided them into smaller stories.
V0.4	Divided big user stories into smaller ones.
V1.0	Added test cases and introduction.
V1.1	Added C4 diagram (to C3).
V1.2	Added applied research section.
V2.0	Finished applied research section, updated C4 diagrams, added design decisions.
V3.0	Moved applied research and design choices/documentation to their own documents
V4.0	Changed some user stories, added some that are associated with the blackjack game and losing a game. Also added color grading for completed or not completed user stories

Table of contents

Introduction

Online gaming has taken the world by storm in the past decade. New games seem to be created out of thin air, and the consumer can be overwhelmed by the wide variety and complexity of these games. In times like these, some prefer to step away from the mainstream gaming market and go to a more familiar space. This space being card games. The familiarity and easy to learn rules of card games are sure to bring in tons of users.

On top of that, the convenience of a website-based card game service makes this one of the easiest games to get into.

Backlog

User stories

Completed = Green
Not completed = Red

User story 1 (Story points: 1 week) – Priority 9
As a player
I can play a game of coin toss against the computer
So that I can have fun

Acceptance criteria:
- The game starts when the start criteria are met and the player pressed on the start button.
- The user can pick one of the sides of a coin.
- Once the coin has been tossed, the player who was assigned to the winning side wins the game.
- The game will not start until the start criteria are met.

User story 2 (Story points: 1 week) – Priority 8
As a player
I can play a game of blackjack
So that I can have fun

Acceptance criteria:
- The game starts when the start criteria are met and the player pressed on the start button.
- The user and the dealer gets two cards.
- The user can choose to either hit (take more cards) or stand (keep the current cards and let the dealer draw cards)
- Once the user's cards' value is more than 21 or less than the dealer, the user loses.
- Once the dealer's cards' value is more than 21, or less than the user, the user wins.

User story 3 (Story points: 1 week) – Priority 5
As a player
I can bet on myself
So that I can potentially earn more points

Acceptance criteria:
- The user can not bet any more points than he/she owns.
- If the game has a minimum bet set in place, the user has to at least bet that amount of points.
- The user's points that they bet are deducted from the account.

User story 4 (Story points: 1 week) – Priority 7
As a player

I can win a game
So that I can win more points

Acceptance criteria:
- The amount of points the user has bet, and the bet of any other user that lost is added to the winning user's account.
- Only the winning user gets any points.
- After the winner gets the points, every user is thrown out of the game and the game is deleted.

User story 5 (Story points: 1 week) – Priority 7
As a player
I can lose a game
When this happens, I lose points

Acceptance criteria:
- Any points that the player has bet is gone.
- The player, and any other players in the game are thrown out of the game and the game is deleted.

User story 6 (Story points: 3 weeks) – Priority: 9
As a website member
I can join a game
So that I can play the game

Acceptance criteria:
- The member can not join the game if it has already started.
- The member joins the game.
- The user count in the game goes up.

User story 7 (Story points: 1 week) – Priority: 4
As a person visiting the website
I can see a list of available games and their status (open/closed)
So that I can look for a game to join.

Acceptance criteria:
- A list of games is displayed with the amount of people, the type of game and the host name.
- A game is displayed as 'blocked' if it is full.
- A guest (not logged in user) can not interact with any of the games.

User story 8 (Story points: 3 weeks) – Priority: 4
As a website member
I can host a game

So that I can play a game with my own preferred settings

Acceptance criteria:

- The website displays a menu where the user can choose their own settings, such as the type of game, number of players and the minimum bet.
- The host can see the players in the game and remove them if they want.
- The website opens a game with the chosen settings.

User story 9 (Story points: 5 days) – Priority: 5

As a person visiting the website

I can register an account

So that I can use the full functions of the website

Acceptance criteria:

- The website checks if the user can create an account by checking e-mail availability.
- The website adds an account to the database with relevant information, like e-mail, username and password.
- The person gets logged in with their new account.
- The new member can now log in/log out of the website.

User story 10 (Story points: 2 weeks) – Priority: 2

As a member

I can edit my account information

So that any information that needs to be changed gets changed

Acceptance criteria:

- The website checks if the chosen information can be changed.
- The website changes the information in the database.
- The website displays the new information on the account page.

User requirements

Number	Details	Priority
UR-1	**Users** can register an account to the website	100
UR-2	**Users** can log in to their accounts on the website	100
UR-3	**Users** can view their account information on an account page	25
UR-4	**Users** can change their account information on an account page	25
UR-5	**Users** can participate in a game on the website	100
UR-6	**Users** can create a game	50
UR-7	**Users** can change certain settings inside a game they have created	25
UR-8	**Users** can place bets inside the game	25
UR-9	**Users** can view their scores on a leaderboard page	10
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UR-10	**Administrators** can delete games	45
UR-11	**Administrators** can edit game settings	20
UR-12	**Administrators** can retrieve data like the amount of points earned on each game	75
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UR-13	**Guests** can view games	35
UR-14	**Guests** can register an account	50
UR-15	**Guests** can view other people's account information (limited to non-sensitive details)	10

Test plan

ID	US	Name	Pre-condition	Test data	Expected result
TC-1	US-1	Playing a game of coin toss	User is in the game and has decided to play	User's name: Peter Password: 123 ID: 0 Points: 100	User choses a side of the coin and waits until the game starts.
TC-2	US-2	Betting on myself to win a game	User has bet 50 points on himself to win.	User's name: Peter Password: 123 ID: 0 Points: 100	User either receives double his bet back, or loses his entire bet based on if he won or lost.
TC-3	US-3	Winning a game of coin toss	User has won the game.	User's name: Peter Password: 123 ID: 0 Points: 100	User receives double their bet back, if they put a bet in, and is then thrown out of the game.
TC-4	US-4	Losing a game	User has lost the game	User's name: Peter Password: 123 ID: 0 Points: 100	User loses their bet and gets thrown out of the game.
TC-5	US-5	Joining a game	User is logged in and on the game-list screen	User's name: Peter Password: 123 ID: 0 Points: 100	User has clicked on a game that they want to play, and the website is now changed for them to be in the game.
TC-6	US-6	Looking for an available game to play	User is on the game-list screen		User or guest can look through the list and see what kind of games are offered.
TC-7	US-7	Hosting a game for people to join	User is in the host settings menu screen	User's name: Peter Password: 123 ID: 0 Points: 100	The user is presented with options for the session they want to start. These options are: type of game, maximum number of players and the minimum bet required. After choosing the preferred settings, the user can start the game.
TC-8	US-8	Registering an account	Guest is on the register page		The guest has to fill in the options of e-mail, password and name. The system will check if the user does not exist already. If not, an account is created.
TC-9	US-9	Editing account information	User is on the account information page	User's name: Peter Password: 123 ID: 0 Points: 100	The user sees the editable fields (name, password and email) and can change them. Upon clicking 'save' these changes are saved.