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Project Report Snake Game

DAT602 Frank Schulz

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# MILESTONE ONE

## 1. Game Description

### 1.1 BASE IDEA

“Snake” is a multiplayer, two-dimensional, top-down game in which the player controls a snake that gets longer as it eats more food, which is how points are earned.

### 1.2 LOGGING IN

Upon first opening the game users will be given the option of either logging in or playing on the guest account, which does not keep a score specific to each player and rather just keeps the highest score achieved on the account. This makes it like all other accounts with the exception of not requiring the user to input any login details.

### 1.3 MAIN MENU

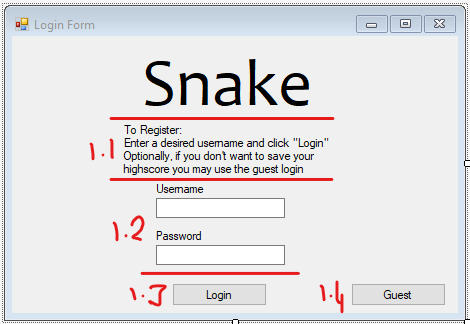
Once an account has been logged in to, the user will be taken to the main menu, which will display their username and high score, as well as other online players and their high score. Here the user will have the option of logging out, editing the details, or starting a new game. If the user is an admin, they may also open an admin window.

### 1.4 GAMEPLAY

The more you eat, the longer the longer the snake will get, however, if the snake bumps into any obstacles (game boundary, itself or otherwise) it will be game over. Your score for any given game is determined by whatever score you manage to achieve before reaching game over. Survive longer than your opponent to win.

## 2. Storyboards

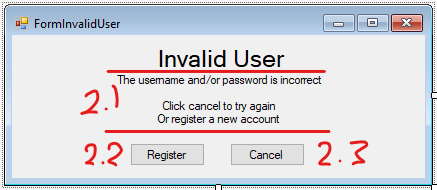
### STORYBOARD 1 – LOGIN SCREEN



The login screen provides the user with two textboxes where a username and password can be entered.

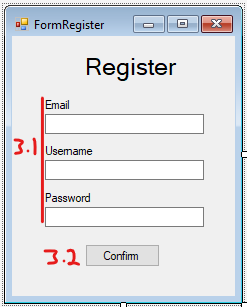
* 1. Instructions for how to register and guest login notice.
  2. Fields for username and password entry
  3. Login button, if the username and password are successfully validated, then move to “Storyboard 4”. If not, then move to “Storyboard 2”.  
     To many login attempts will result in that user being temporarily locked out of their account. (Storyboard 4)
  4. Guest login that doesn’t require a personal login and saves its own high score.

### STORYBOARD 2 – INVALID USER



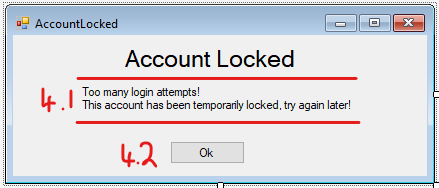
* 1. Information to guide the user
  2. “Register” will take the user to the registration screen. (Storyboard 3)
  3. “Cancel” will close the message and allow the user to re-attempt the login (Storyboard 1)

### STORYBOARD 3 – REGISTER A NEW ACCOUNT



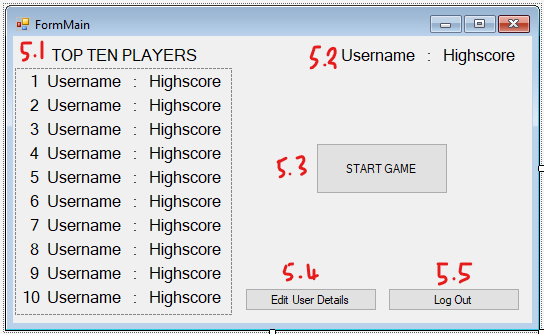
* 1. Enter user details
  2. Confirm account creation

### STORYBAORD 4 – ACCOUNT LOCKED



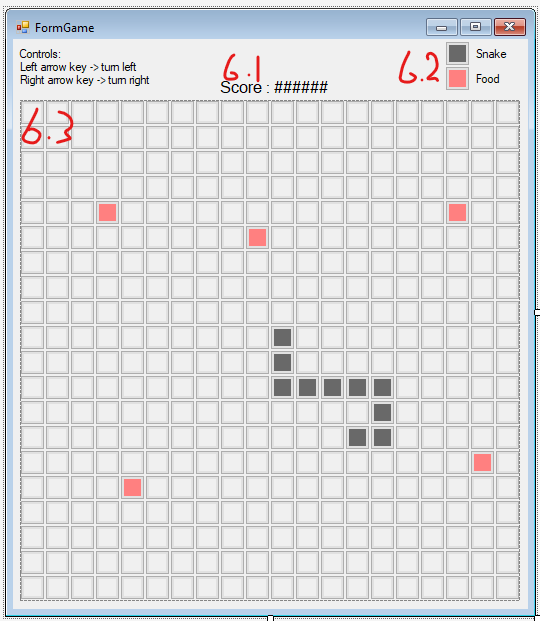
* 1. Information for the user, letting them know their account has been temporarily locked.
  2. Takes the user back to the login screen.

### STORYBOARD 5 – LOGGED IN



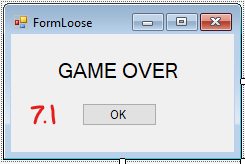
* 1. A list that shows the current top ten players
  2. Shows the logged in players username and highscore
  3. Start a game
  4. Edit the details of the currently logged in user
  5. Log out the current user

### STORYBOARD 6 - GAME



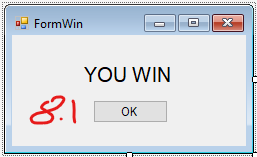
1. Displays the score that has been achieved in the current game.
2. A key that explains the entities on the grid.
3. The game grid.

### storyBOARD 7 – GAME OVER



1. Return to menu

### STORYBOARD 8 – WIN

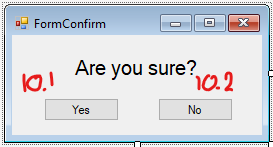


1. Return to menu

### STORYBOARD 9 – EDIT USER DETAILS

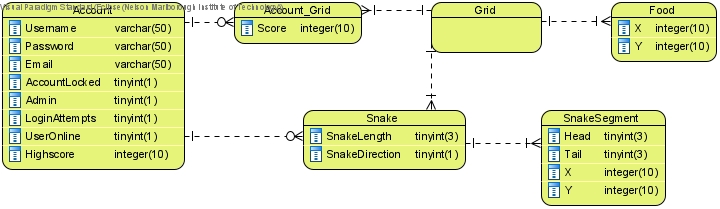
1. Optional field for changing the username.
2. Optional field for changing the email.
3. Optional field for changing the password.
4. Field to enter current password as security measure.
5. Buttons to either confirm or cancel account edits. (Return to menu)

### STORYBOARD 8 – CONFIRMATION DIALOG

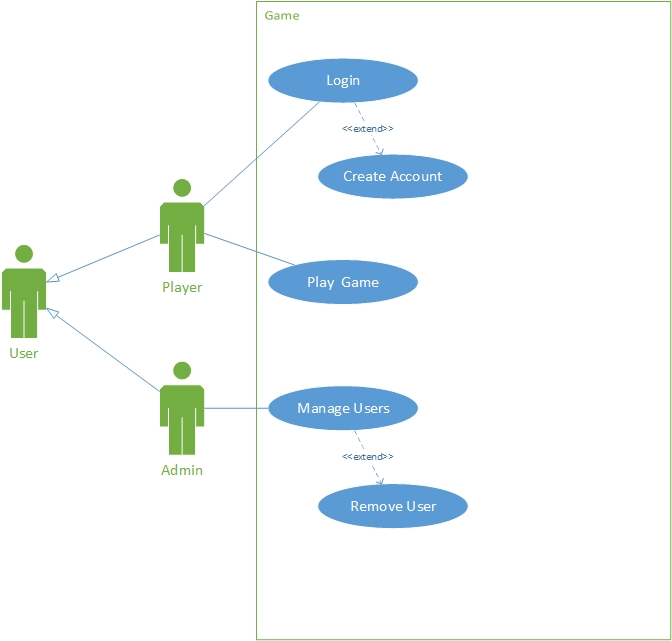


1. Confirm action (go to intended Storyboard)
2. Cancel action (return to previous Storyboard)

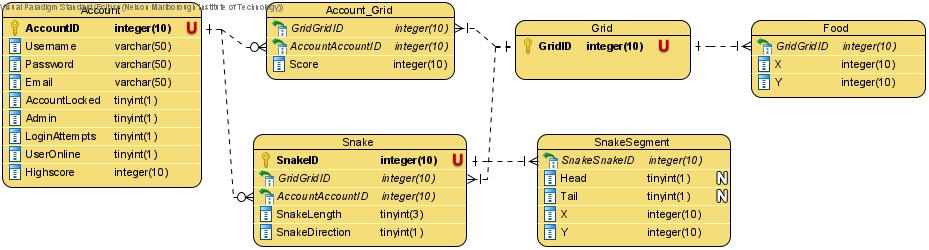
## Conceptual ERD



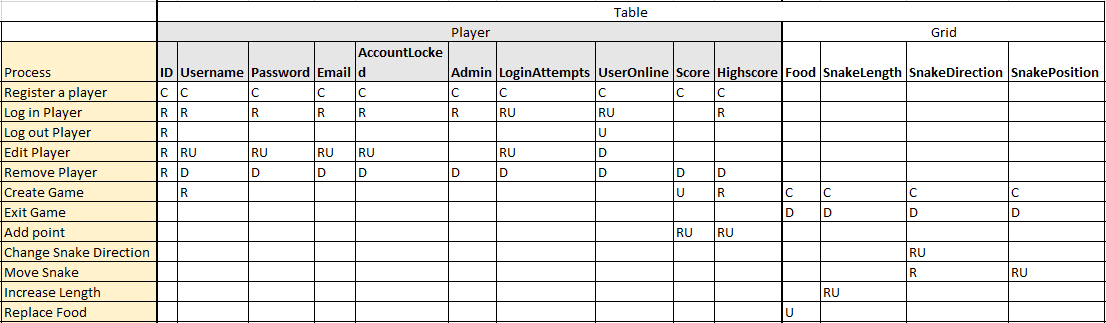
## Use Case Diagram



## Logical ERD



## C.R.U.D table



## SQL

### DDL

See attached file: DAT602 - Frank Project DDL-DML.sql

### DML

See attached file: DAT602 - Frank Project DDL-DML.sql

## Bibliography