

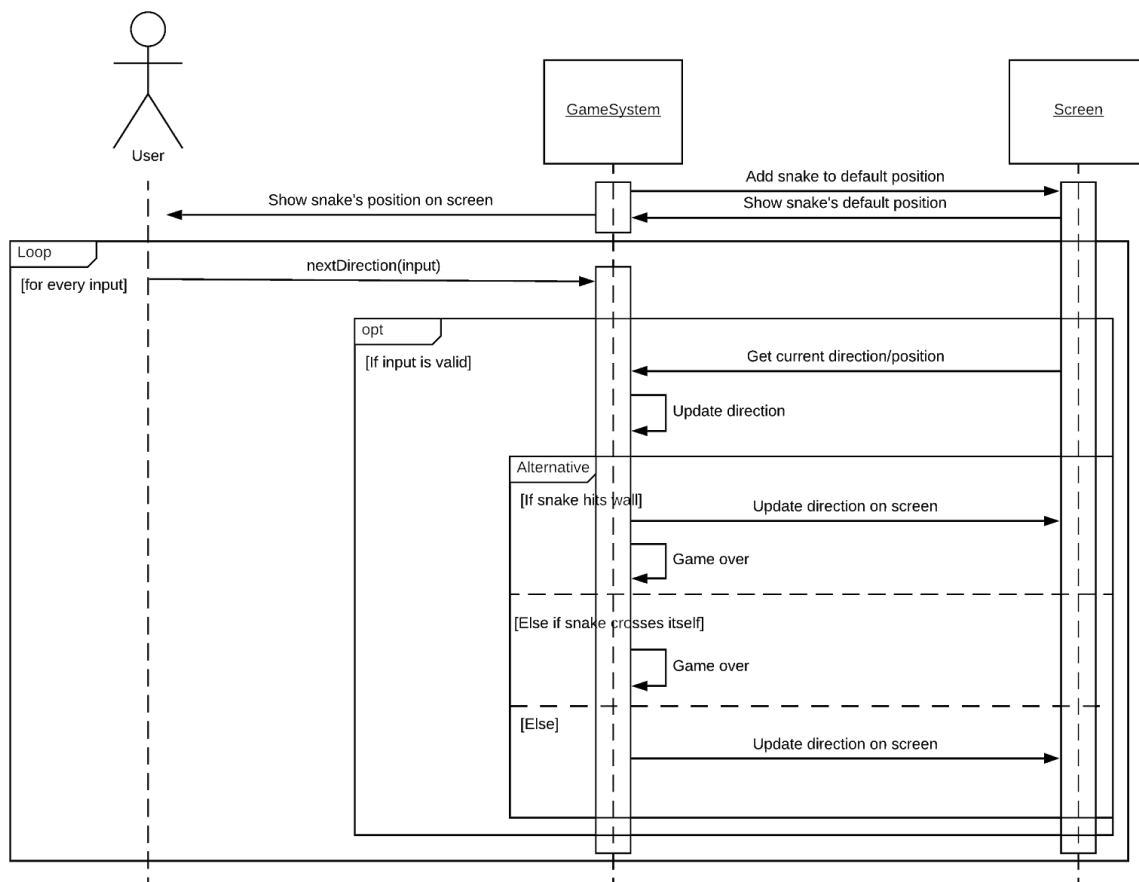
Group 10

The game starts in the SnakeGame class, which then calls a new GameStateManager. The GameStateManager has a stack of different states that can be invoked. The user can log in using the LoginState, where the AuthService checks your credentials and uses the database (UsersTable class is used here to do the db related stuff). Furthermore, there is the MenuState, PlayState and SignUpState (not included here because it is yet to be implemented and decided on how it will correlate with the database class, we might change the structure of how the database is later on).



Exercise 2

This is our sequence diagram, it shows the interaction between the user and the snake when the game has just started and the user can make the snake move. Initially the GameSystem adds the snake's default position to the screen, and the screen shows the snake's position. Then a loop begins where, the user can click WASD to control the snake's movement. Within that loop every input gets checked if it's valid. And if it is the direction gets updated accordingly. If the snake hits the wall or crosses itself the game ends, otherwise the direction gets updated and the system will continue to check for the next input again.



Link to full-sized UML sequence diagram [here](https://shorturl.at/loCDE): shorturl.at/loCDE

Exercise 3

With approval from our TA Sara, for the implementation part of this assignment, we made sure to do the following:

- Set up authentication and database for it. Only login possible from the user side.
- Pick a game name
- Have an authentication screen UI (signup not working)
- Render one food element on screen
- Fix Checkstyle errors we had from previous sprint