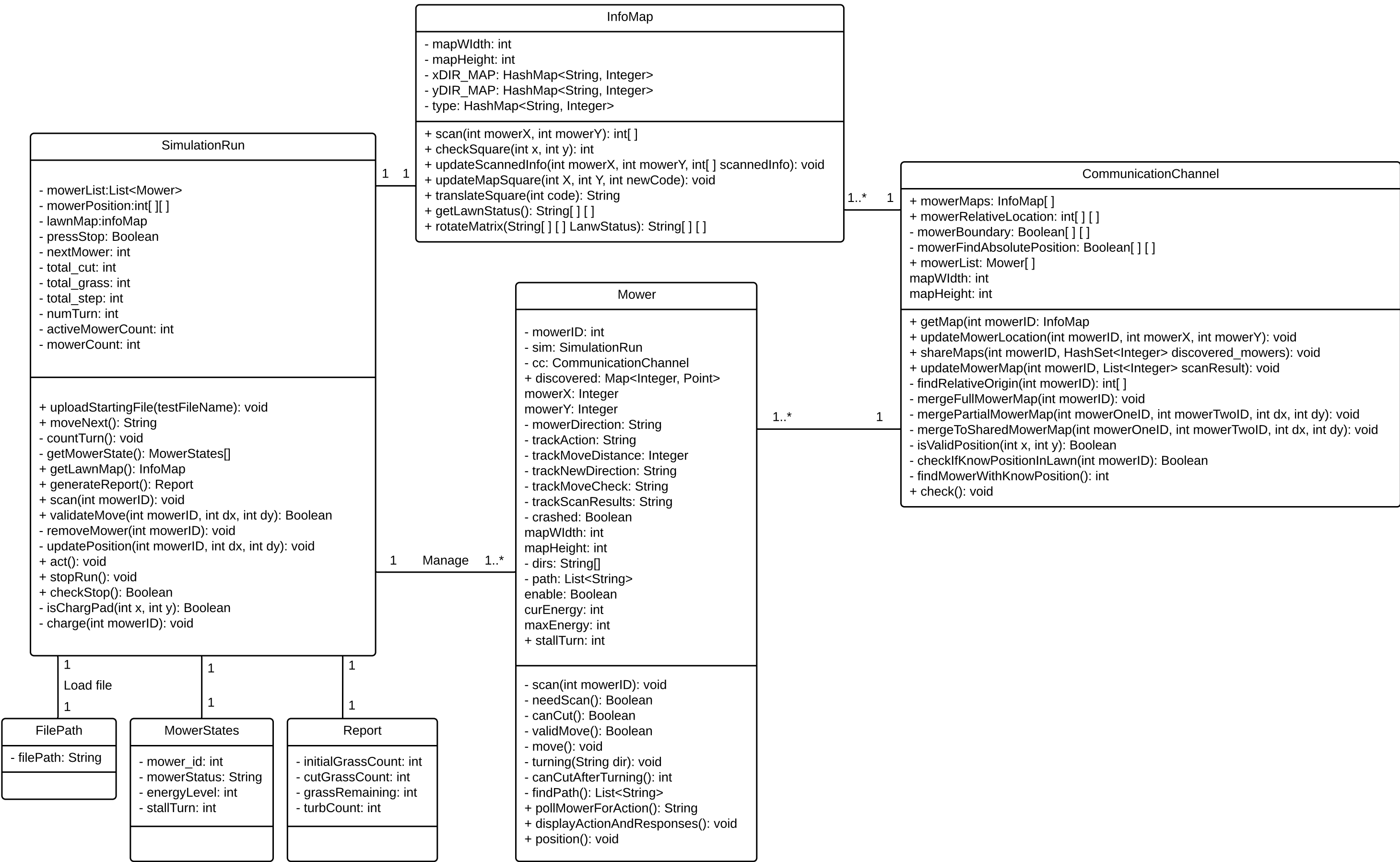


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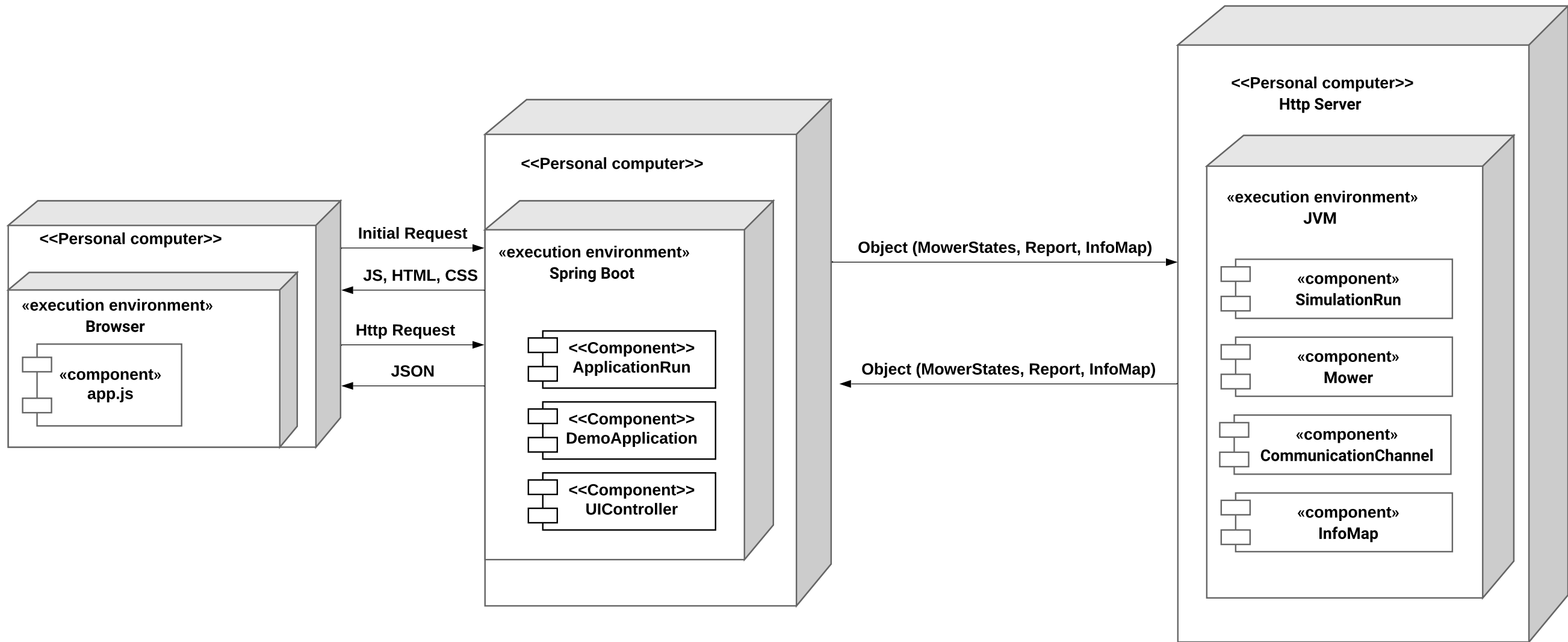
Class Diagram

UML 2.0



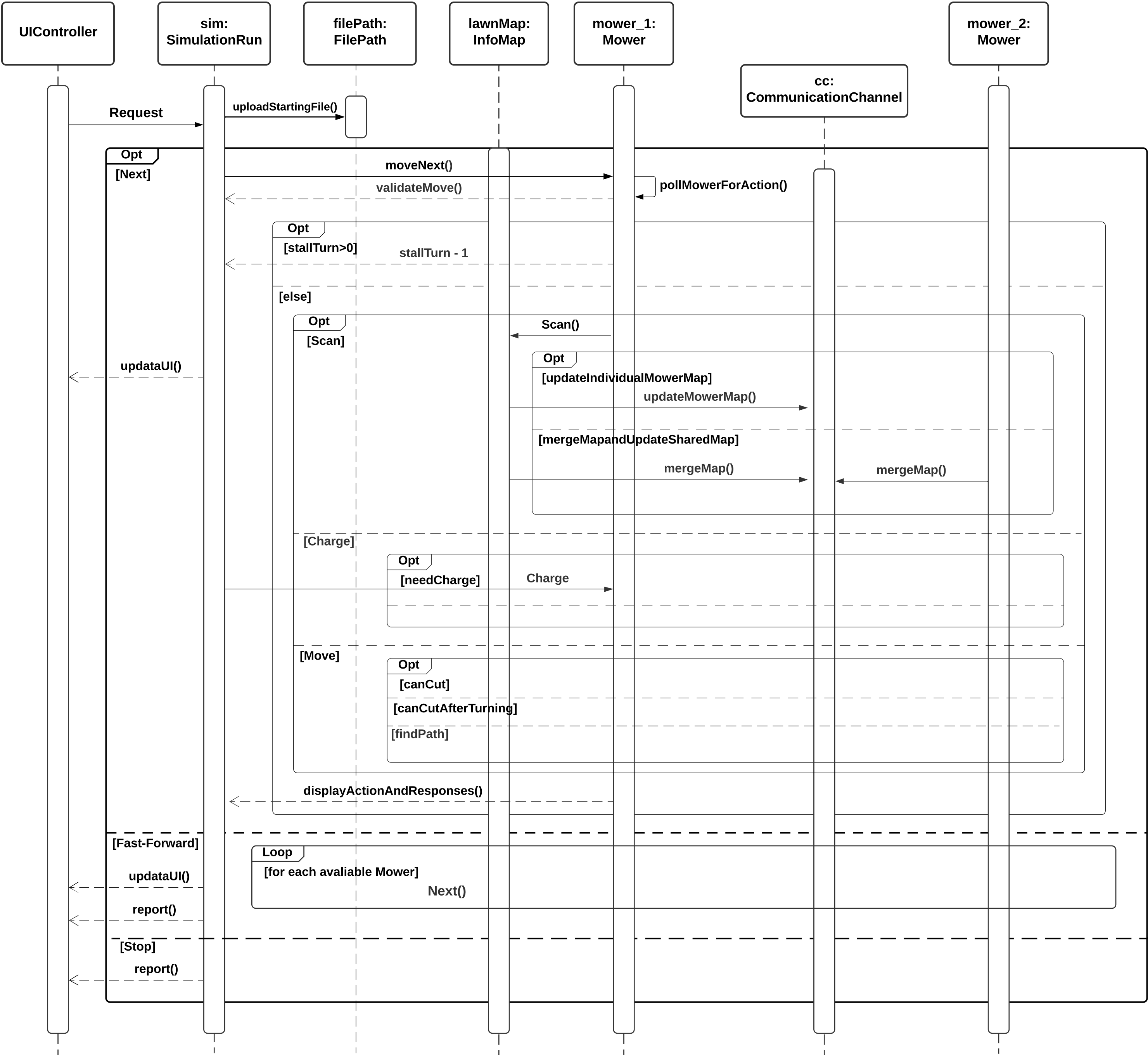
CS6310 Summer 2019, Team 09
Deployment Diagram

UML 2.0



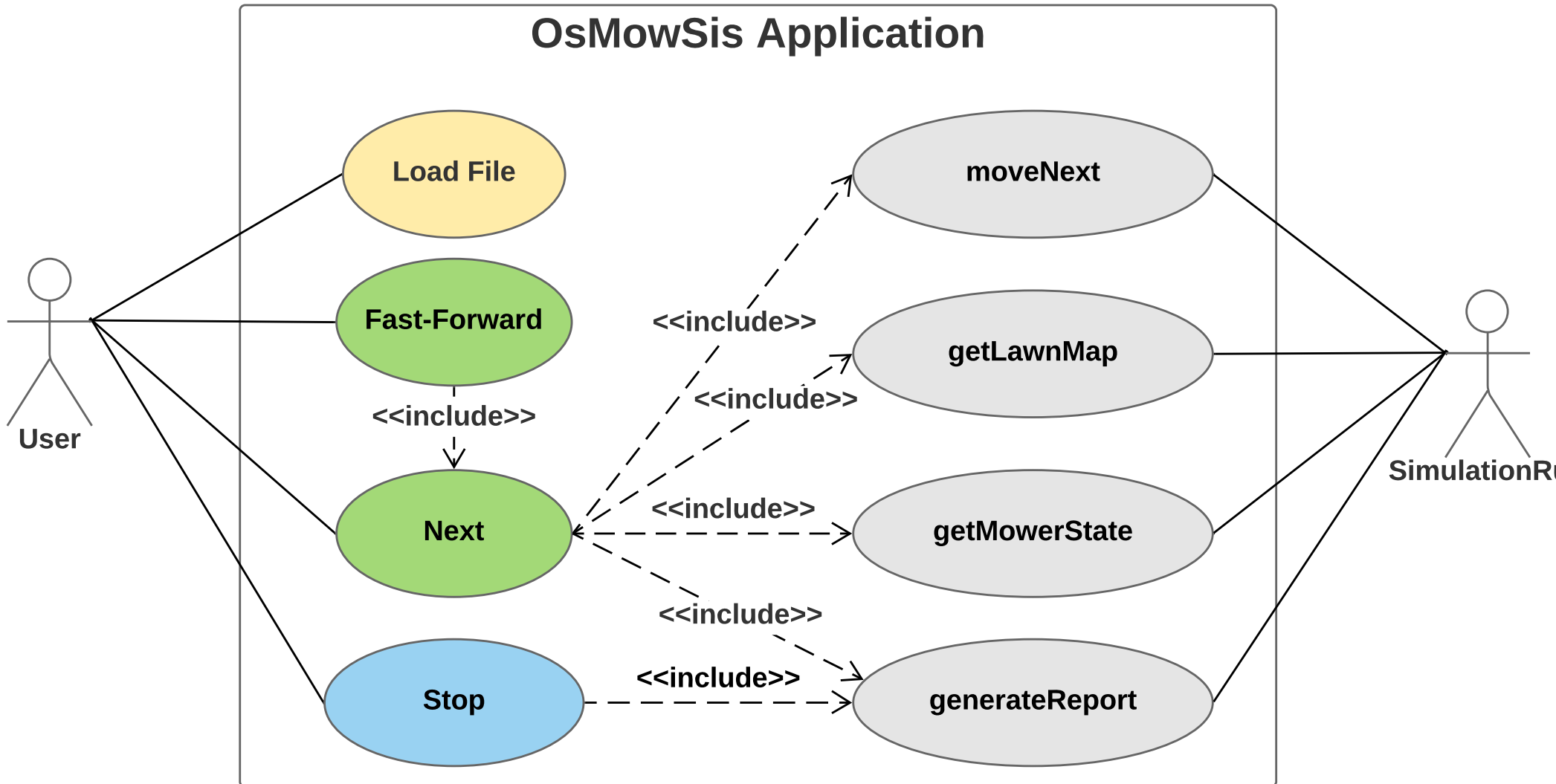
CS6310 Summer 2019, Team 09
Sequence Diagram

UML 2.0



CS6310 Summer 2019, Team 09
Use Case Diagram

UML 2.0



Steps to run the application:

1. Download the team_09.ova from:
<https://drive.google.com/open?id=1-HUrtq6Ww6ZpwxUiMFP2LpqgeWRgQe2a>
2. Import the team_09.ova with VirtualBox
3. From the desktop, open the folder: /CS6310_Summer2019_Team09/GUI/main-panel
4. Right click and then select “Open in Terminal”
5. Type into the terminal: ./mvnw spring-boot:run
6. Wait for the server to start (will take about 10 seconds)
7. From the desktop, double click to start the Google Chrome browser. If it asked for the password for the keyring, the password is: cs6310
8. Enter the address: <http://127.0.0.1:8080/>
9. Enter the path of the test case file into the following window and then click submit:

LAWNMOWERS SIMULATION

File Path:

(Please input full path of a test file)

Submit

The test case files are saved in the folder “test_cases” on the desktop. The file path are the following:

/home/student/Desktop/test_cases/cs6310_a7_test2.txt

/home/student/Desktop/test_cases/cs6310_a7_test5.txt

/home/student/Desktop/test_cases/cs6310_a7_test8.txt

10. The following window is what the initial state of ‘cs6310_a7_test2.txt’ looks:

LAWNMOWERS SIMULATION

NextStopFast-Forward

Summary Info

Initial Grass	Grass Cut	Grass Left	Turns Done
20	4	16	0

Mower States

Mower ID	Mower Status	Energy Level	Stalled Turns
1	enabled	30	0
2	enabled	30	0
3	enabled	30	0
4	enabled	30	0

Lawn Map

3	Grass	Grass	Mower 4	Grass	Grass
2	Mower 3	Grass	Grass	Grass	Obstacle
1	Obstacle	Grass	Grass	Grass	Mower 2
0	Grass	Mower 1	Grass	Mower 3	Grass

11. Click on the buttons to test the application.