

Chat-Room Adventure

San José State University

Computer Engineering 133: Software Engineering II

Group I

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Group 1

Overview

We are making a choose-your-own-adventure game that is a web application.

We will be looking into:

- Our cost estimates
- Our class relations
- Our sequence diagrams

Based on the following use cases:

Login/Logout, Play Game, Save Game



Login/Logout: Unadjusted FP Calculations

	Count	Simple	Count	Medium	Count	Complex	SubTotal	Comments:
EI	2	3	0	4	0	6	6	EI: password, username
EO	1	4	0	5	0	7	4	EO: menu display
EIN	1	3	0	4	0	6	3	EIN: verify user type
IFL	1	7	0	10	0	15	7	IFL: data about user
EIF	0	5	0	7	0	10	0	

Total: 20

Play Game: Unadjusted FP Calculations

	Count	Simple	Count	Medium	Count	Complex	SubTotal	Comments:
EI	1	3	1	4	1	6	13	EI: player name, player choice, save file input
EO	1	4	0	5	0	7	4	EO: game display
EIN	1	3	0	4	0	6	3	EIN: game menu option
IFL	1	7	1	10	0	15	17	IFL: data about user and save file
EIF	0	5	0	7	0	10	0	

Total: 37

Save Game: Unadjusted FP Calculations

	Count	Simple	Count	Medium	Count	Complex	SubTotal	Comments:
EI	0	3	0	4	1	6	6	El: save input
EO	0	4	0	5	0	7	0	
EIN	0	3	0	4	0	6	0	
IFL	0	7	1	10	0	15	10	IFL: data about save file
EIF	0	5	0	7	0	10	0	

Total: 16

General Characteristics Calculations

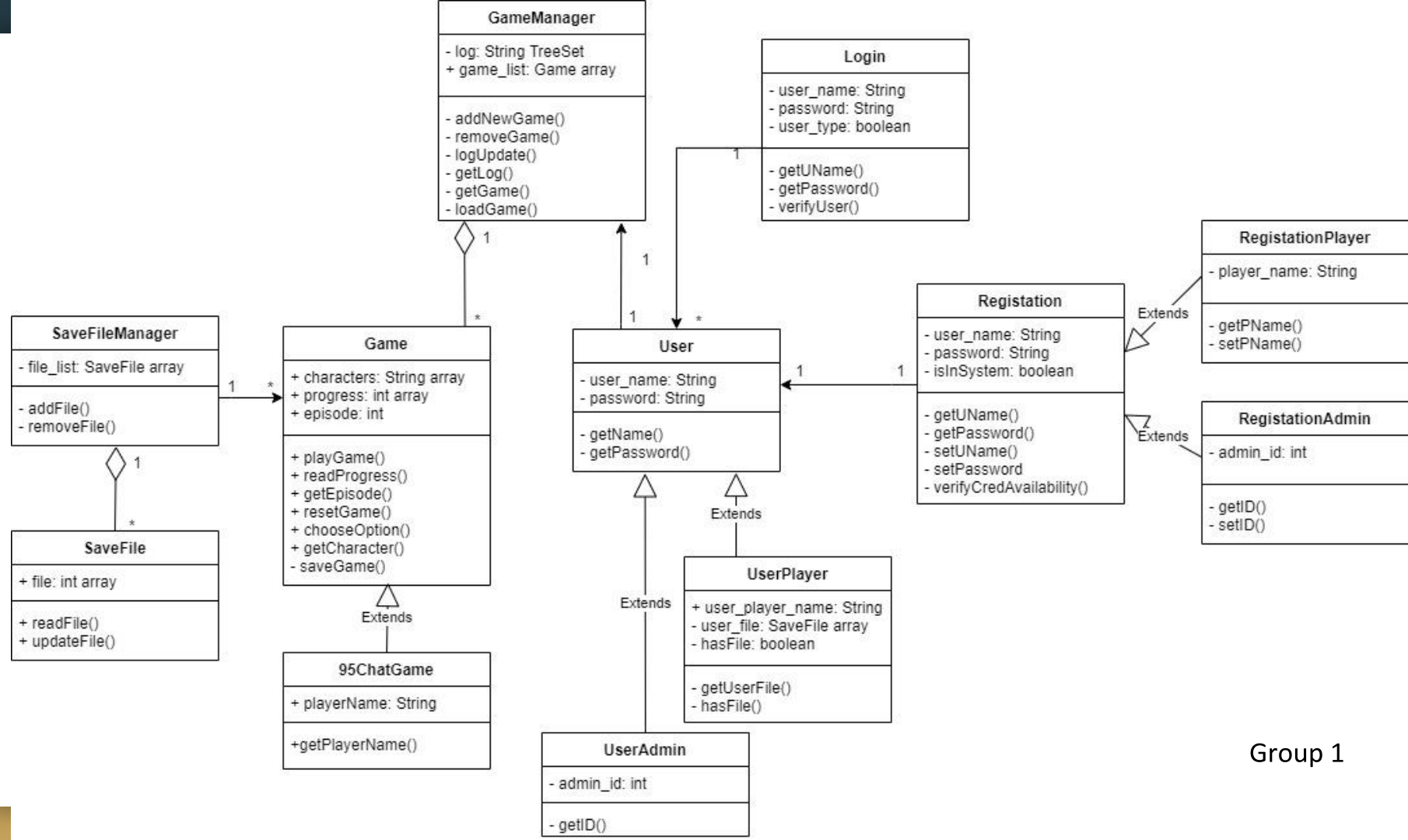
Characteristics	<u>Score</u>	Characteristics	<u>Score</u>
1	5	8	1
2	1	9	1
3	1	10	1
4	5	11	3
5	1	12	1
6	1	13	1
7	1	14	2

Total: 25

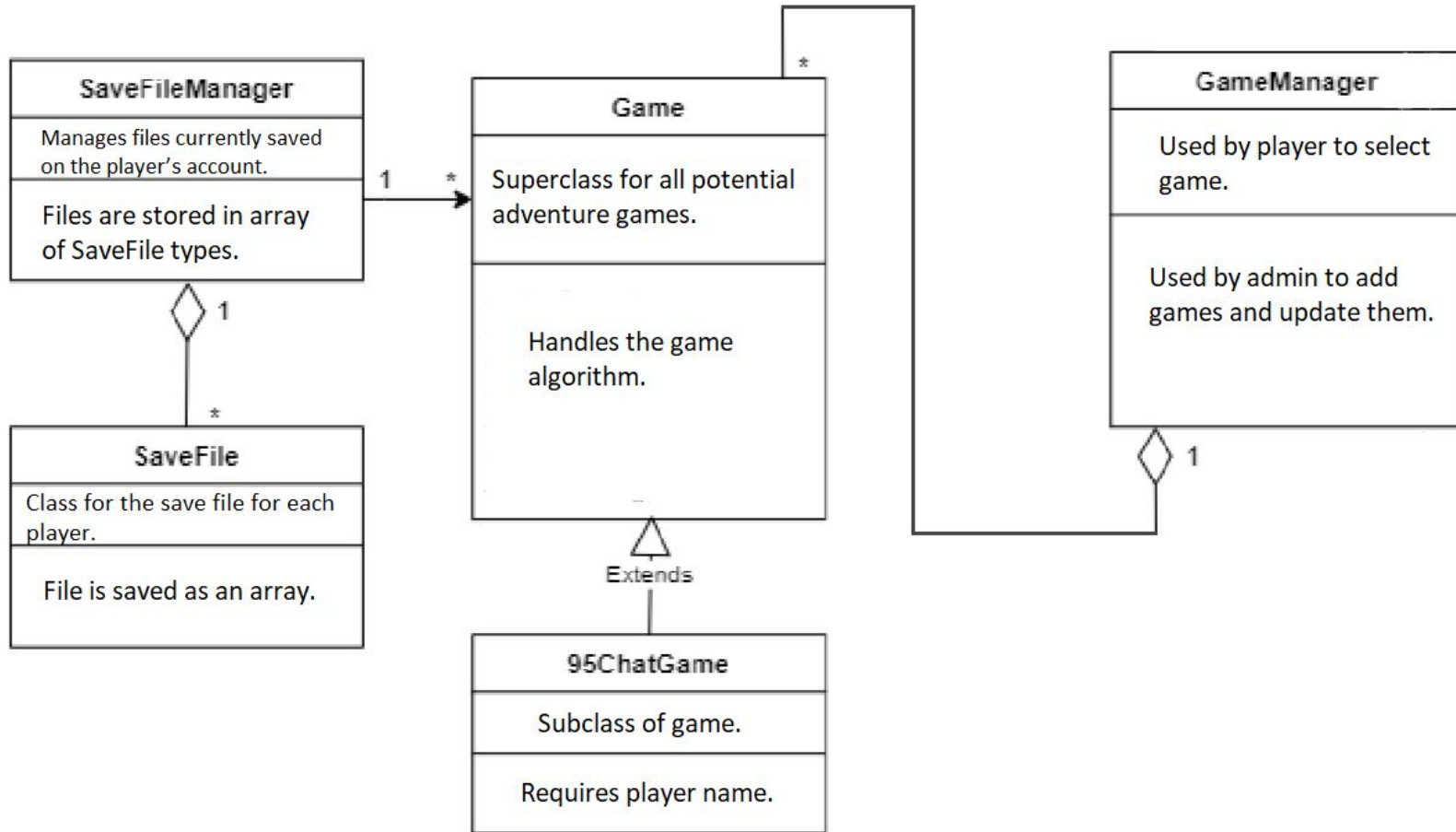
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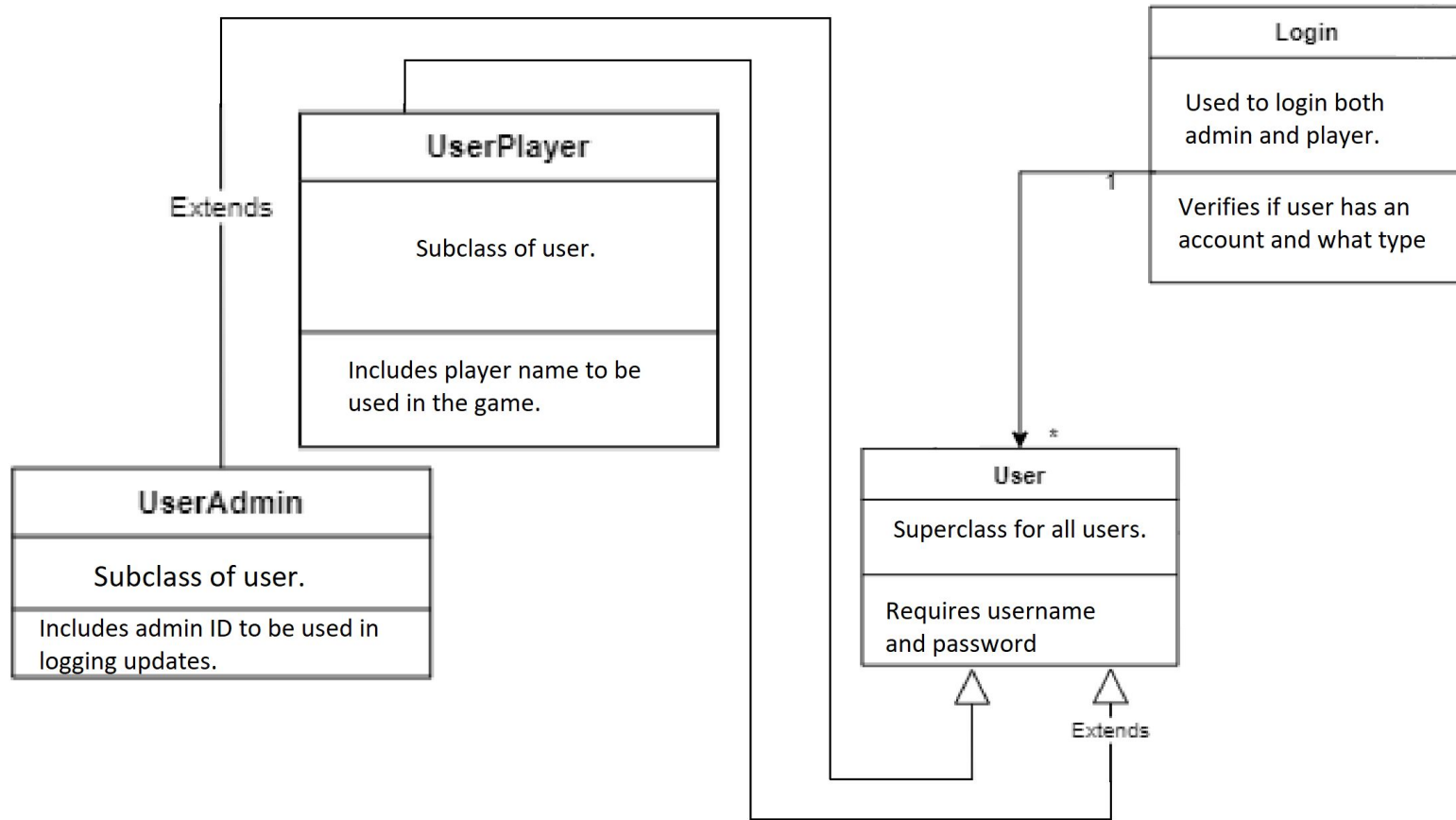
Adjusted Function Points (AFP)

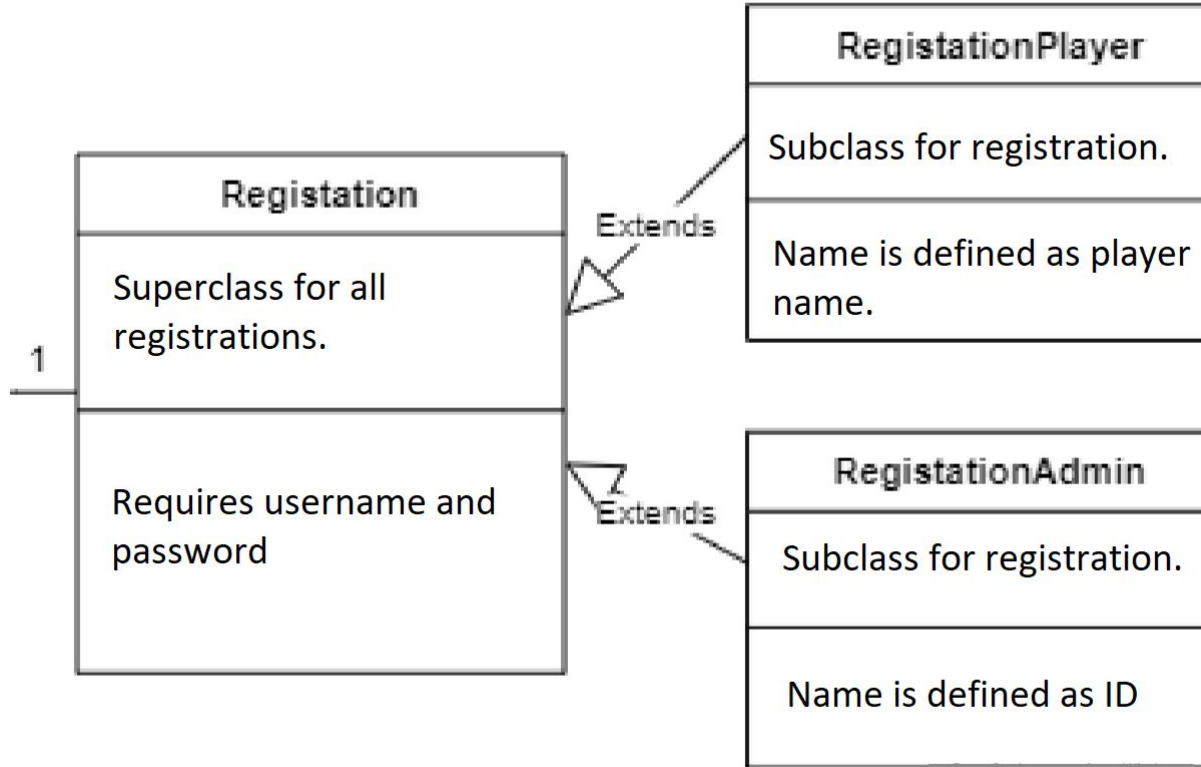
- $AFP = (UFP) \times (0.65 + 0.01 \times GC)$
- $AFP = (20+37+16) \times (0.65 + 0.01 \times 25)$
- $AFP = 65.7$



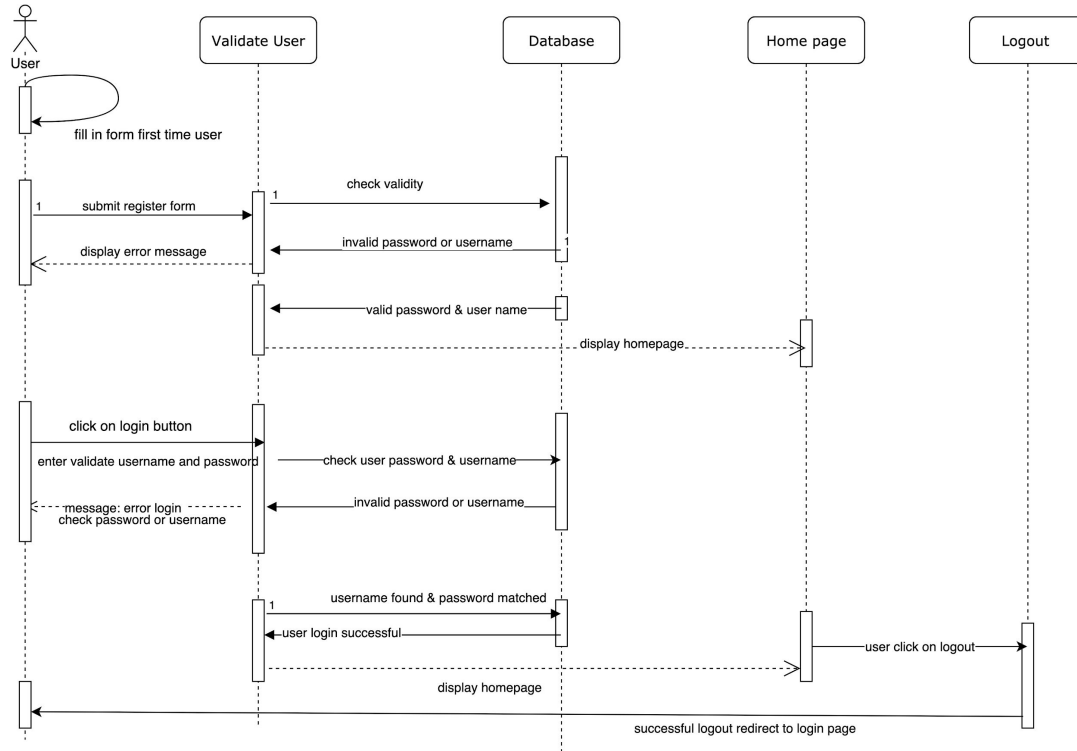
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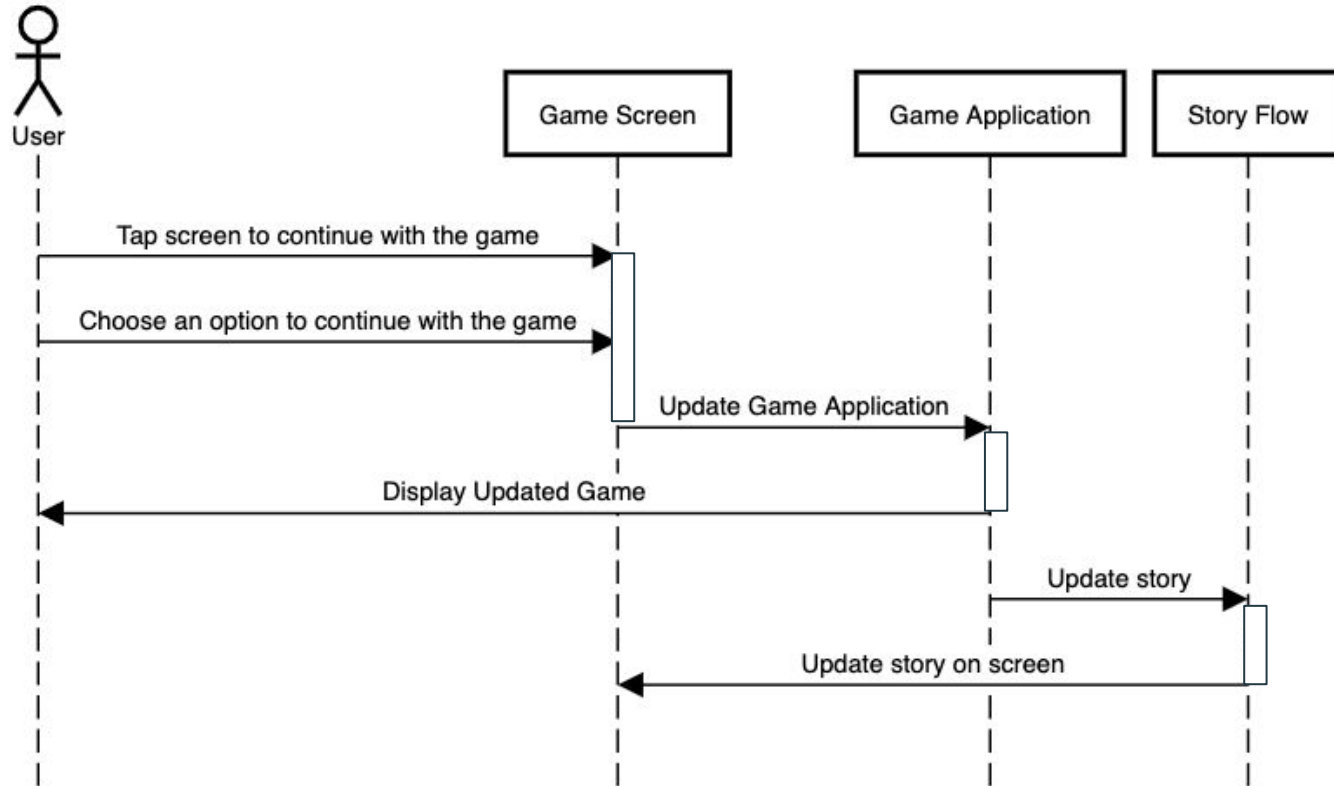




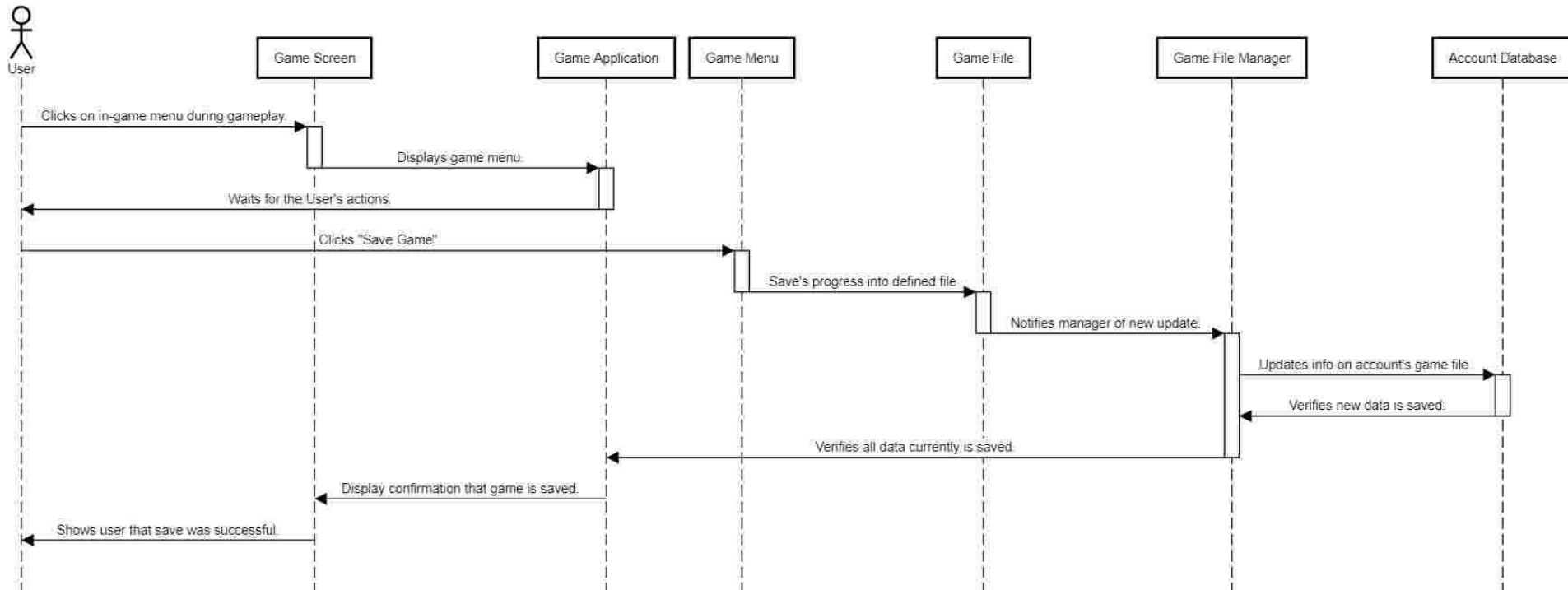
Login/ Logout Sequence Diagram



Play Game Sequence Diagram



Game Save Sequence Diagram





QUESTIONS?