



# A DYNAMIC TRIVIA GAME

ANDERSON ARENAS  
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# BUSINESS MODEL

The business model of the trivia game app revolves around providing an entertaining and engaging experience for players through a dynamic platform that features user-generated content. The app offers multiple categories for diverse gameplay, a ranking system that fosters healthy competition, and a rewards mechanism for consecutive correct answers, which enhances user motivation. By focusing on entertainment and community engagement, the app aims to maintain user interest and encourage regular participation, creating a sustainable and vibrant gaming experience.

# USER – STORIES

To get to the user-stories, we took the functionalities of the game "Trivia Crack" as a basis and from there we took the main ones that could be implemented taking into account the lack of a graphical interface.

- 1.As a player, I want to choose a question category (history, science, entertainment, etc.) so I can answer questions on a topic that interests me.
- 2.As a player, I want to earn rewards for correctly answering several questions in a row, so I can stay motivated and achieve achievements within the game.
- 3.As a player, I want the game to have a ranking system, so I can compare my performance to other players.
- 4.As a player, I want to have a limited amount of "wild cards" or hints during the game (50/50, hint, skip question), so I can use them on difficult questions.
- 5.As a user, I want to be able to give ideas for new questions so I can add topics of interest to the game.
- 6.As an admin, I want to be able to accept questions suggested by users so I can take them into account within the game.
- 7.As a player, I want to be able to log in within the game, so I can save my progress.

# PROCESSES AND COMPONENTS

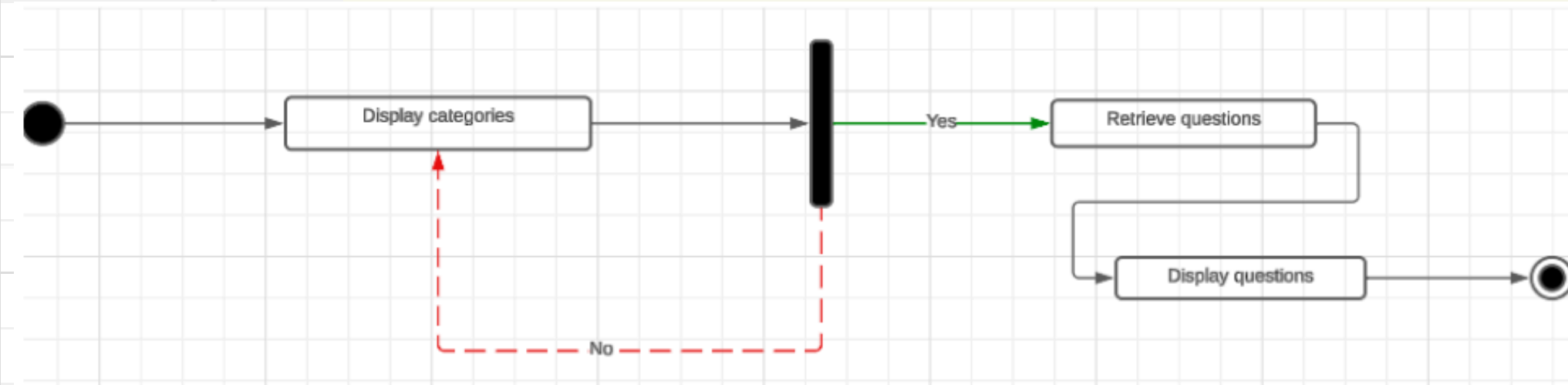
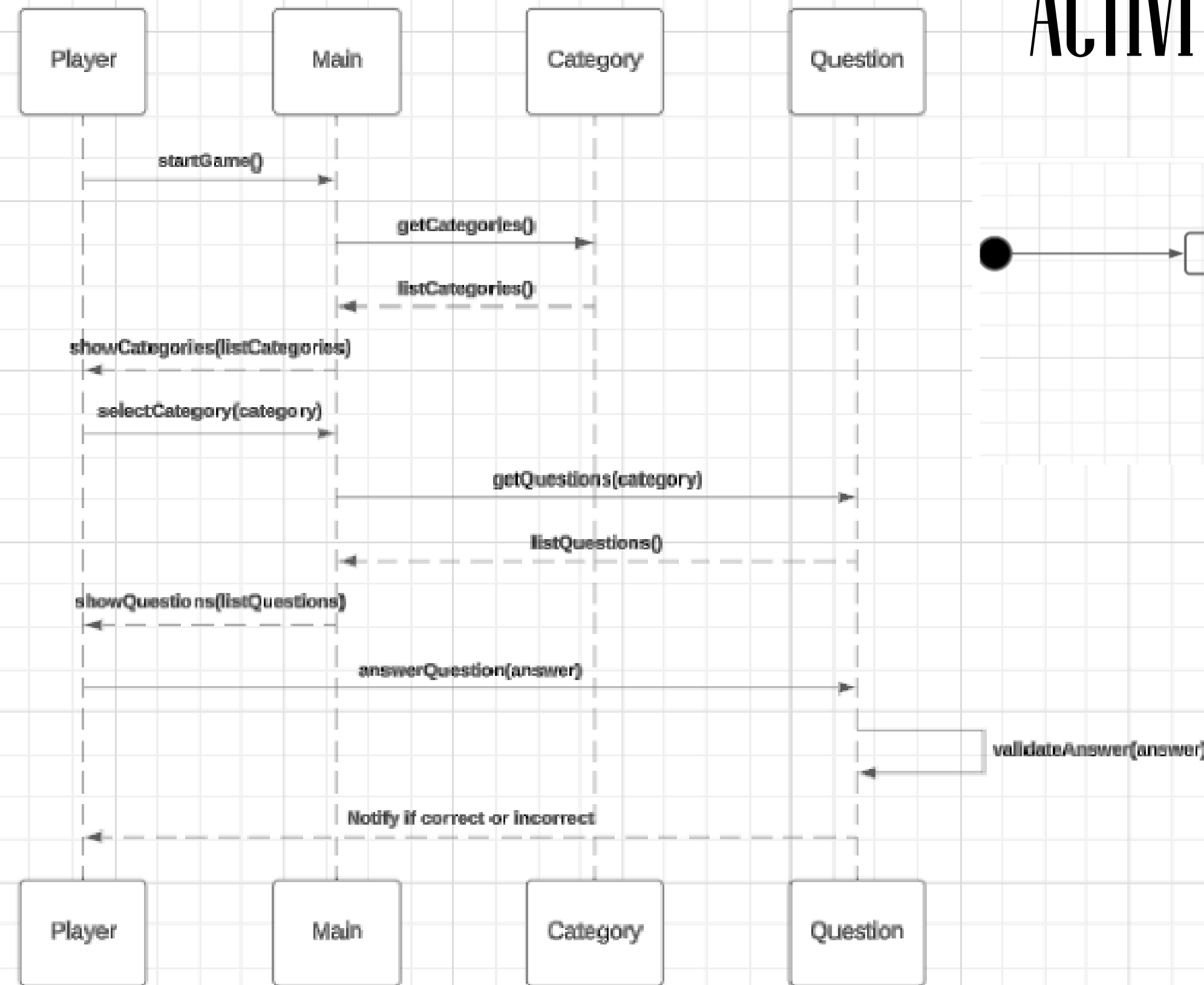
## **Processes:**

1. User Registration and Login
2. Category Selection
3. Question Answering
4. User-Generated Content Submission
5. Reward System
6. Ranking System

## **Components:**

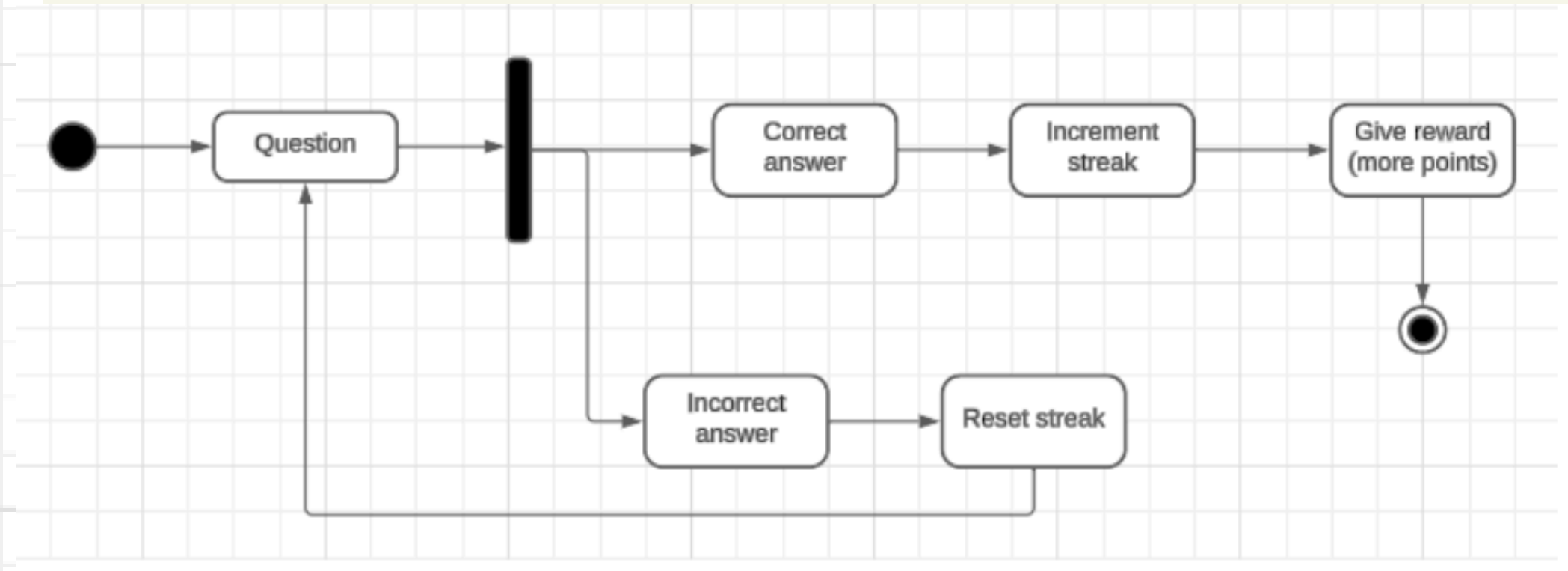
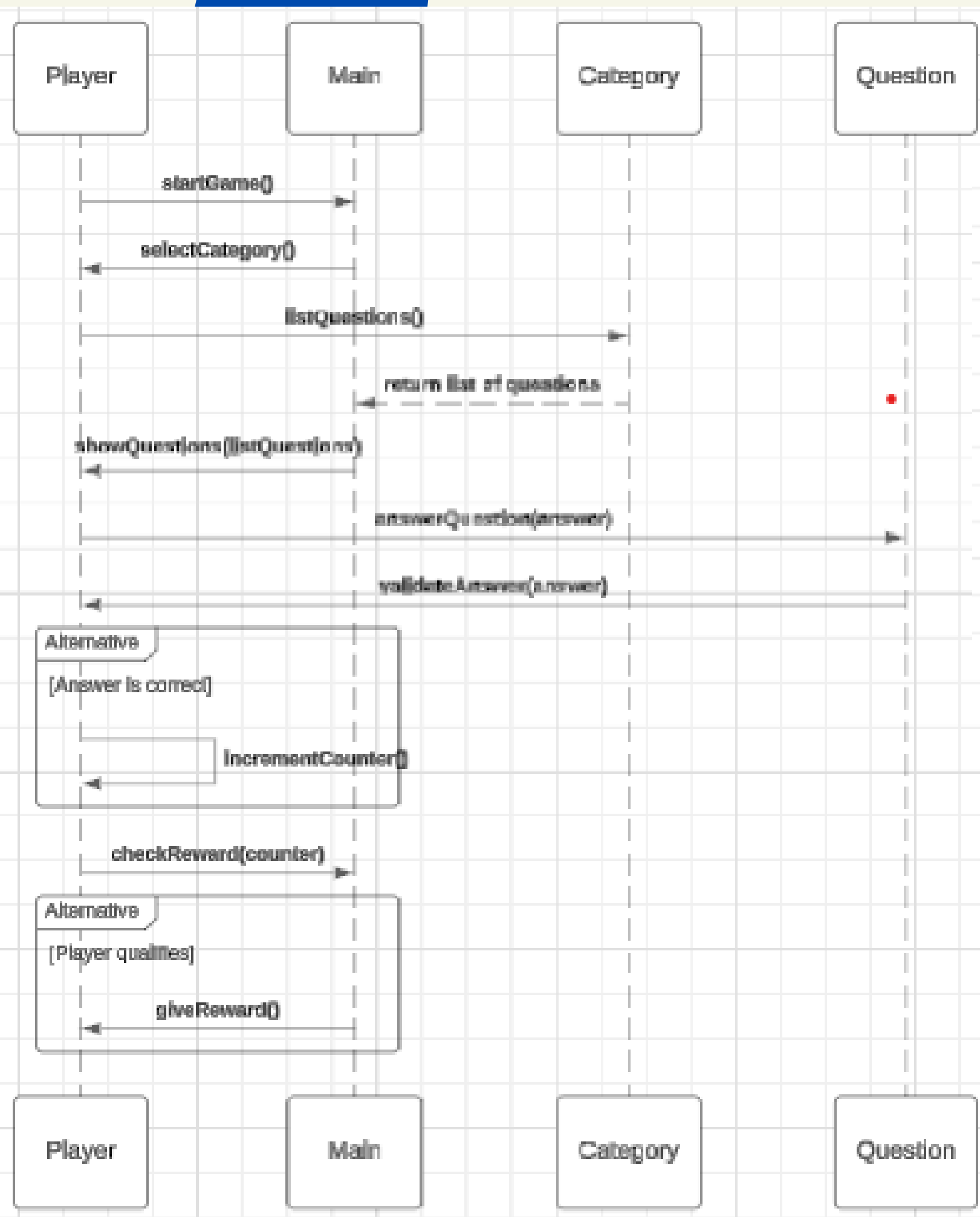
1. User Interface
2. User Class
3. Player Class
4. Admin Class
5. Category Class
6. Question Class
7. Ranking Class
8. Database

# ACTIVITY AND SEQUENCE DIAGRAMS



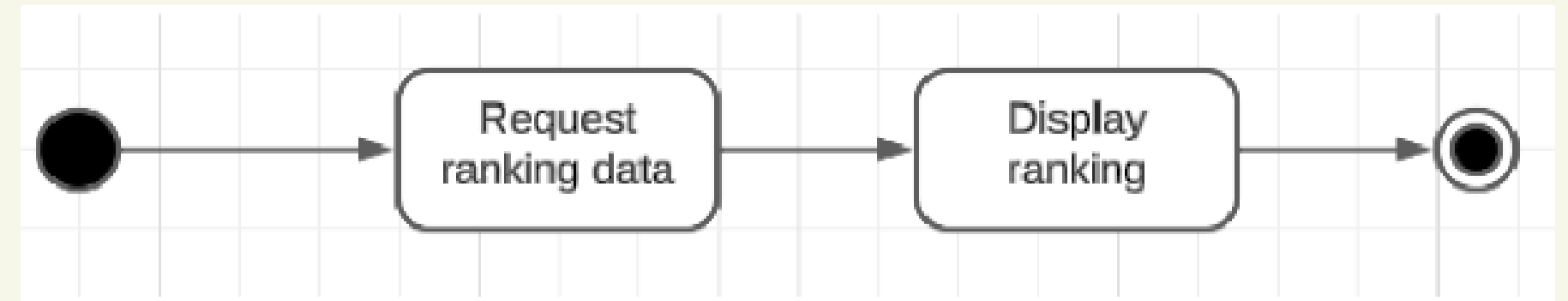
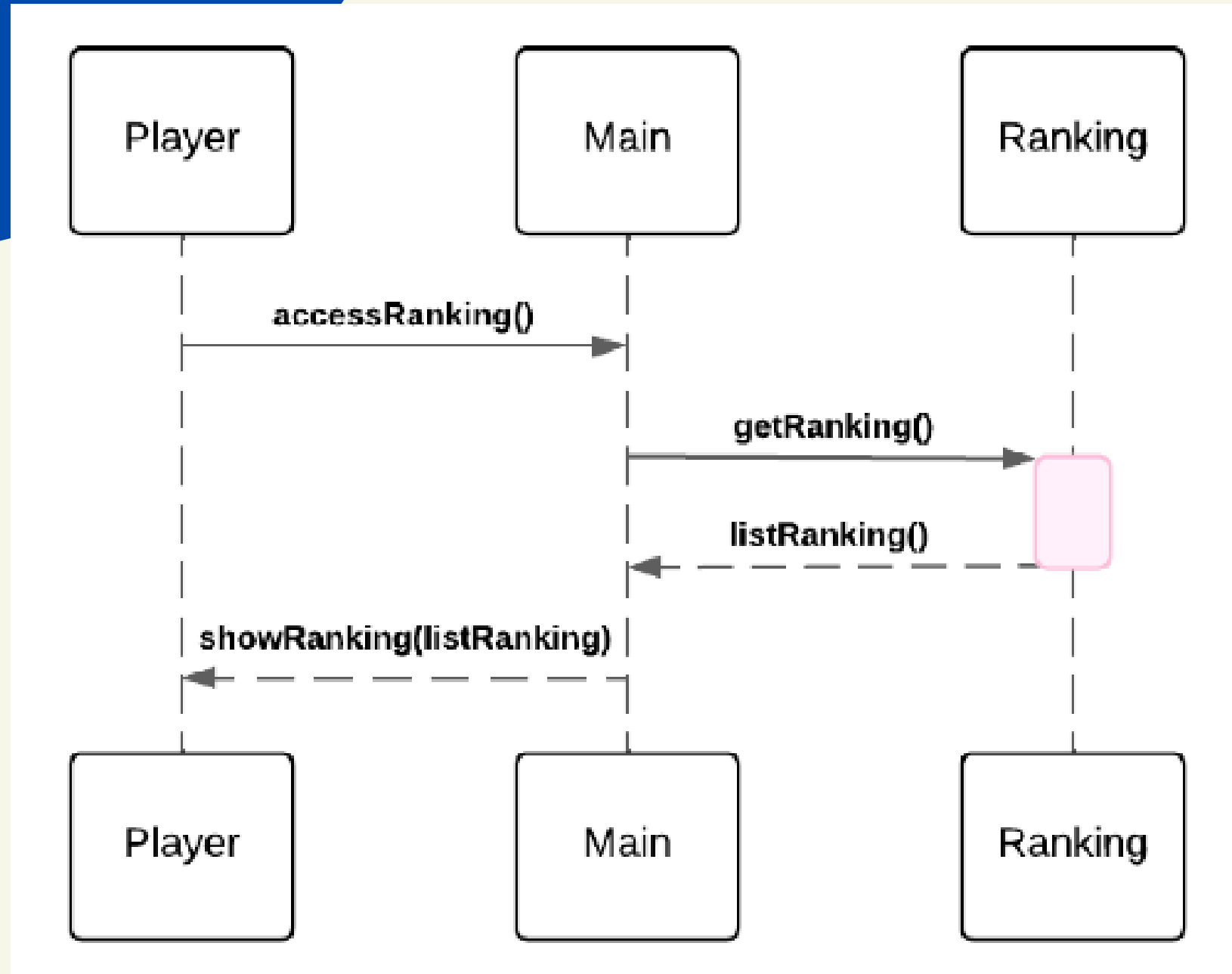
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# ACTIVITY AND SEQUENCE DIAGRAMS



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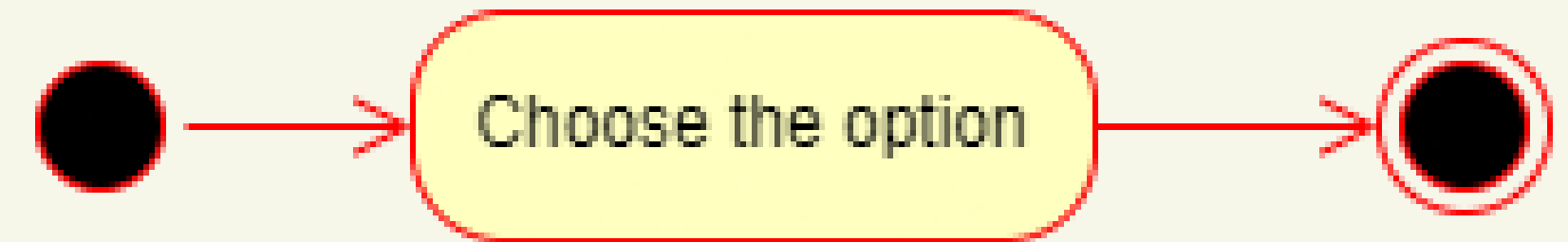
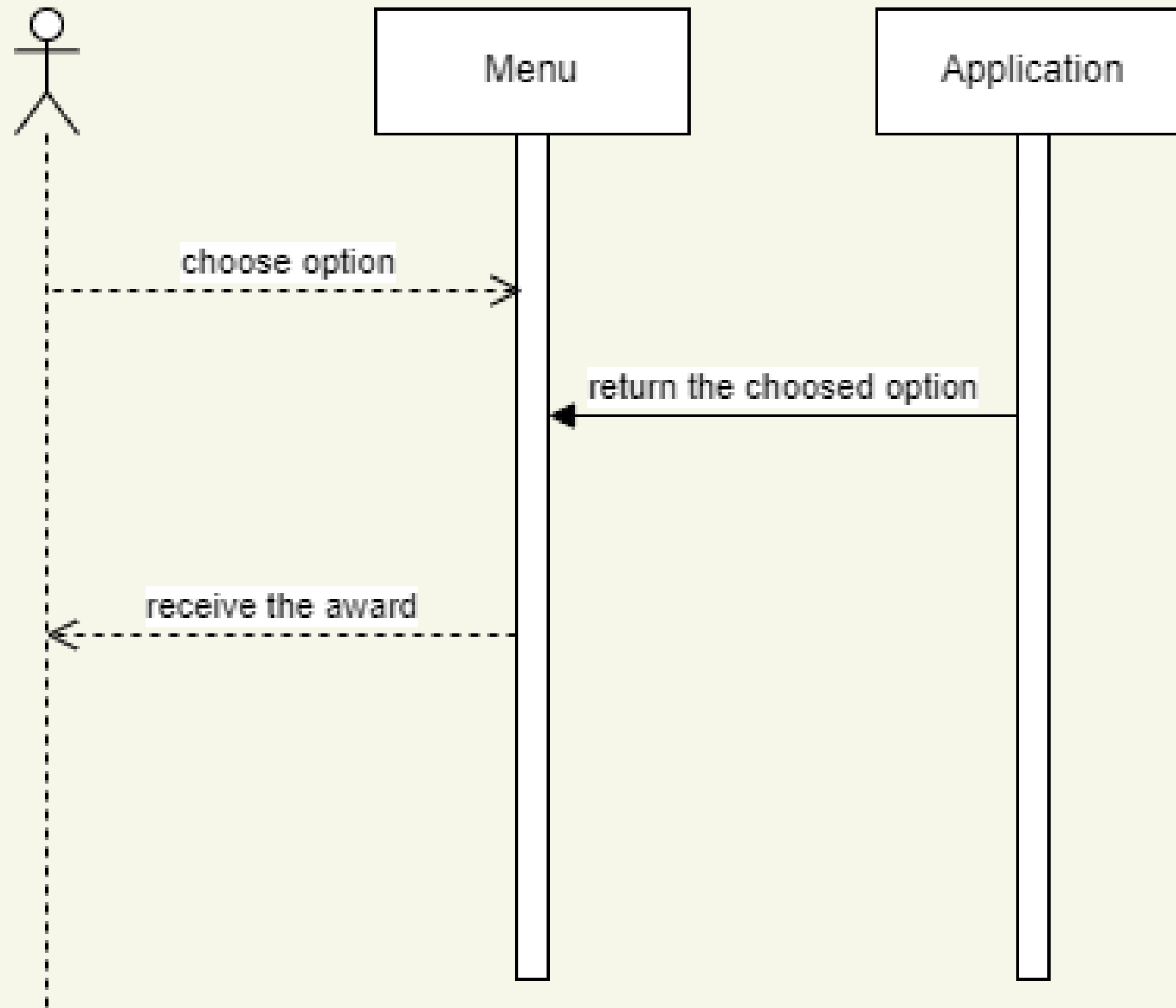
# ACTIVITY AND SEQUENCE DIAGRAMS



- As a player, I want the game to have a ranking system, so I can compare my performance to other players.

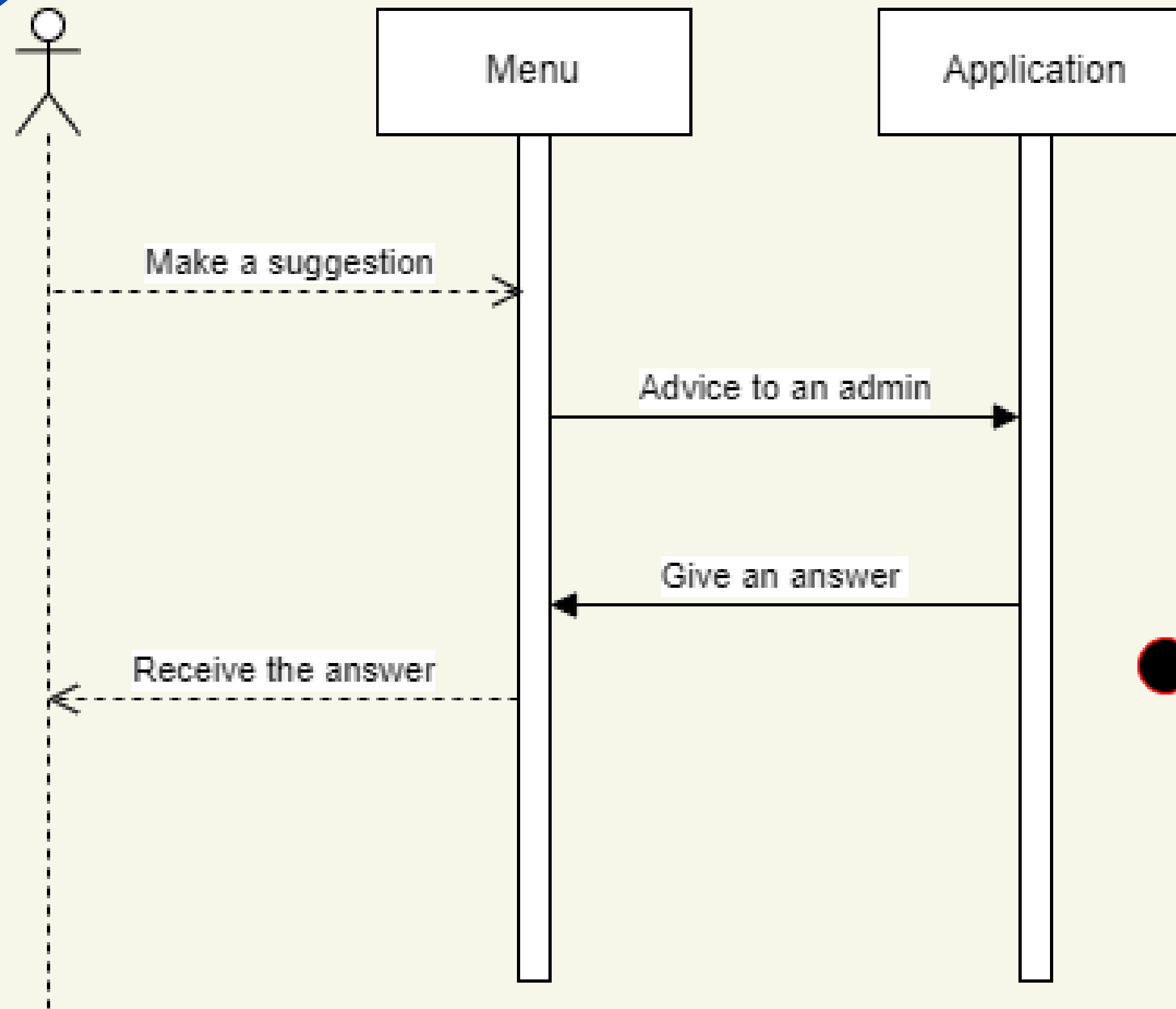


# ACTIVITY AND SEQUENCE DIAGRAMS

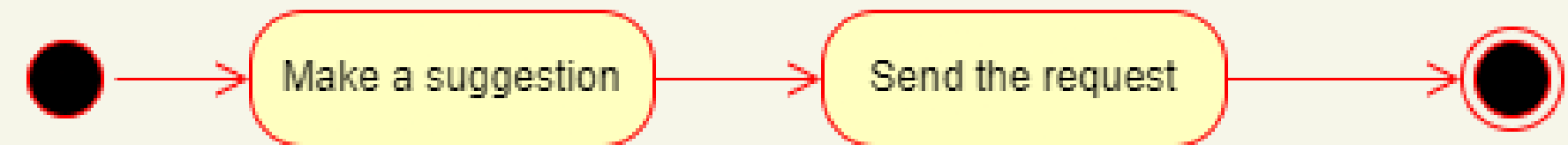


- As a player, I want to have a limited amount of "wild cards" or hints during the game (50/50, hint, skip question), so I can use them on difficult questions.

# ACTIVITY AND SEQUENCE DIAGRAMS

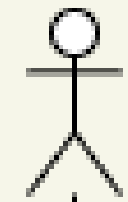


- As a user, I want to be able to give ideas for new questions so I can add topics of interest to the game.



# ACTIVITY AND SEQUENCE DIAGRAMS

Admin



Menu

Application

Search new suggestions

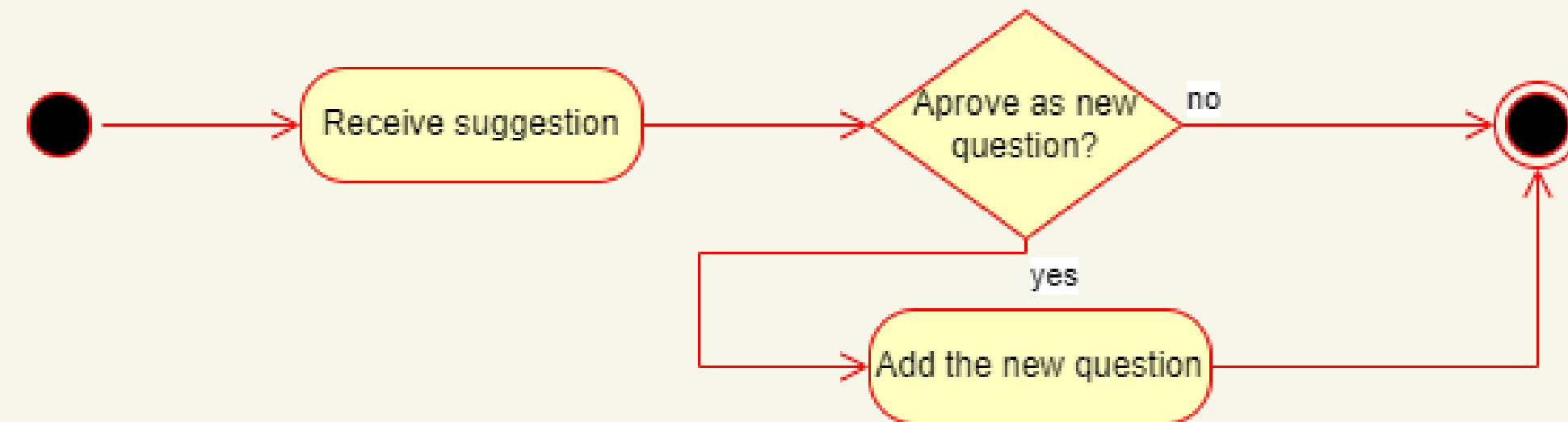
Return the suggestions

Show the suggestions

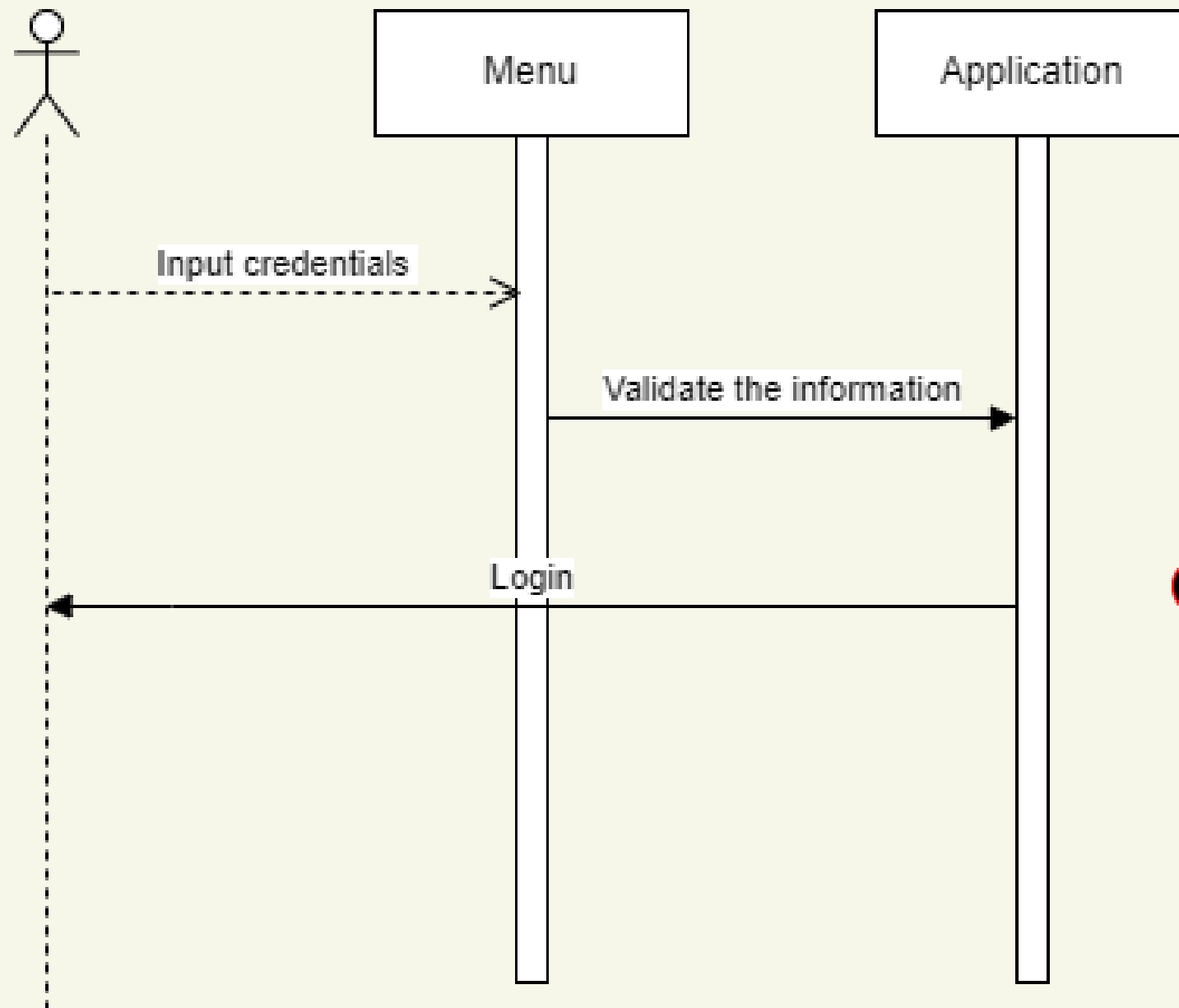
Aprove or reject

Add the aproved suggestions

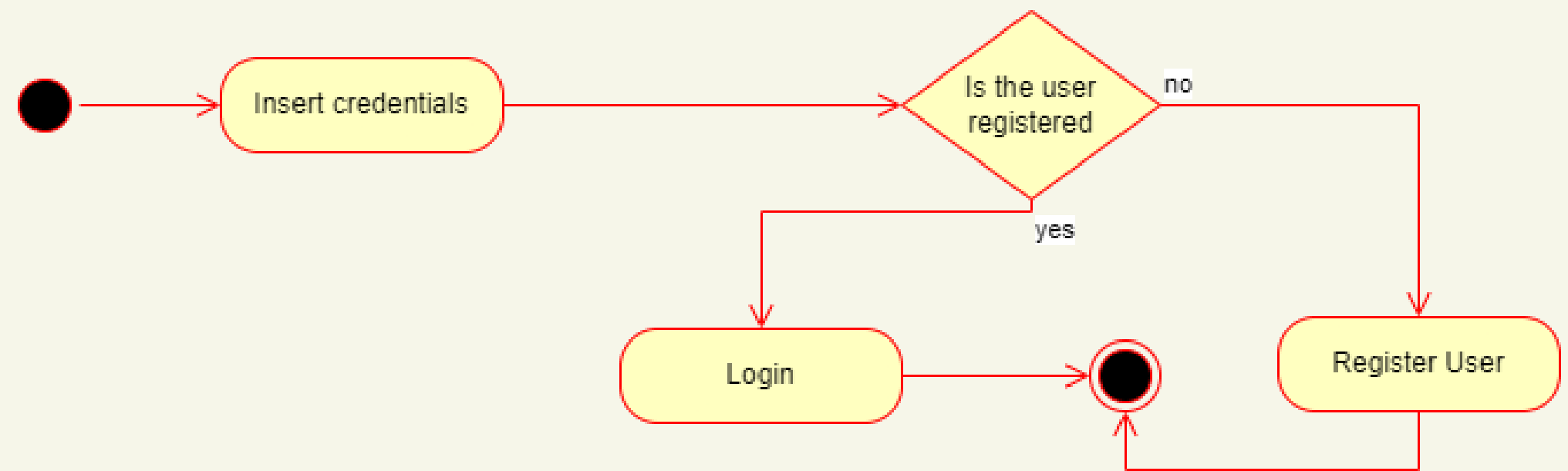
- As an admin, I want to be able to accept questions suggested by users so I can take them into account within the game.



# ACTIVITY AND SEQUENCE DIAGRAMS



- As a player, I want to be able to log in within the game, so I can save my progress.



# CRC CARDS

<u>RANKING CLASS</u>	
<ul style="list-style-type: none"><li>- Update scores</li><li>- Show scores</li><li>- Save information</li></ul>	<ul style="list-style-type: none"><li>- Admin</li><li>- Player</li></ul>

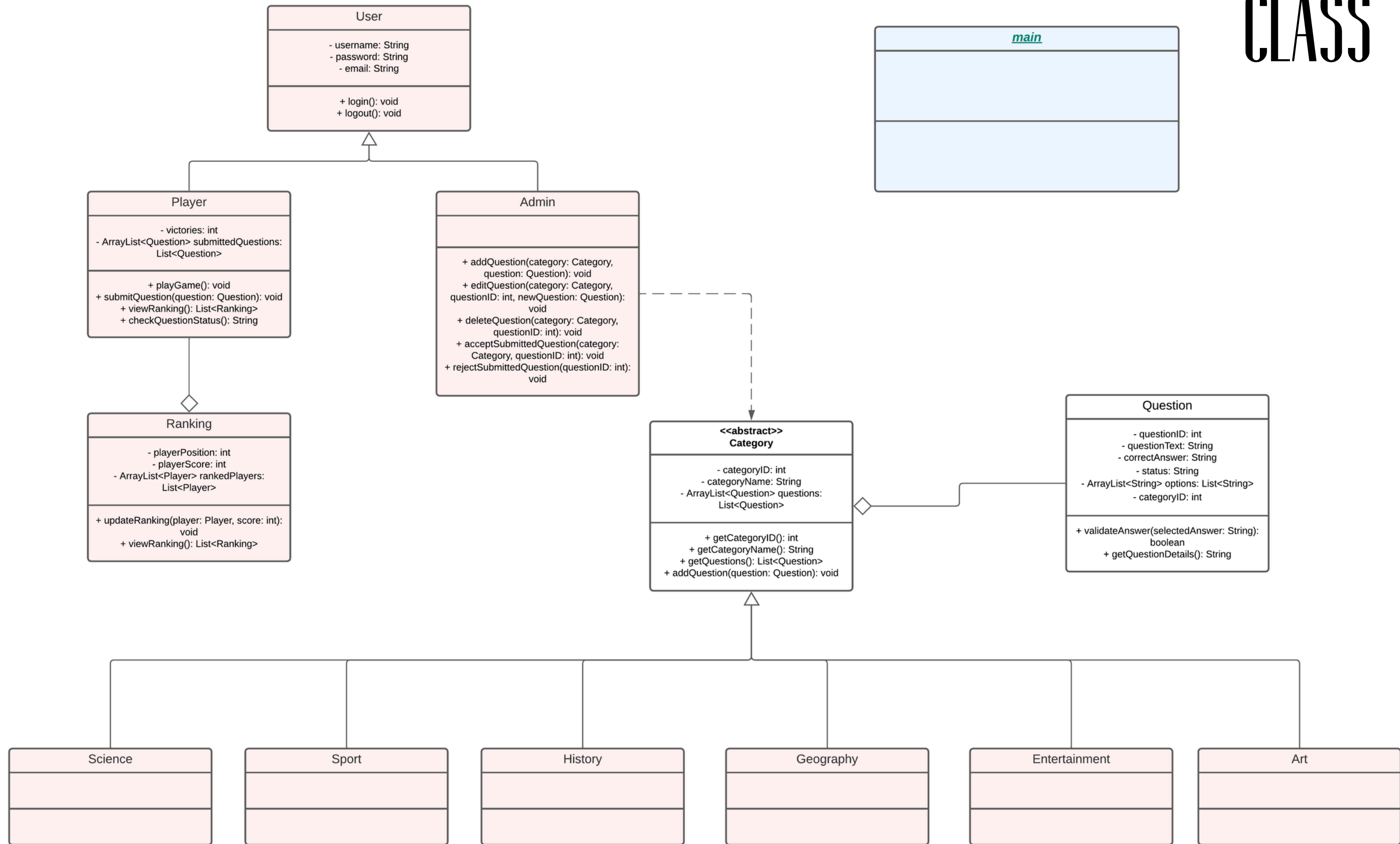
<u>PLAYER CLASS</u>	
<ul style="list-style-type: none"><li>- Authentication (login, logout)</li><li>- Play the game</li><li>- View the ranking</li><li>- Suggest questions</li></ul>	<ul style="list-style-type: none"><li>- Ranking</li></ul>

<u>CATEGORY CLASS</u>	
<ul style="list-style-type: none"><li>- Show the categories</li><li>- Provide the questions</li><li>- Save the new added questions</li></ul>	<ul style="list-style-type: none"><li>- Admin</li><li>- Question</li></ul>

<u>QUESTION CLASS</u>	
<ul style="list-style-type: none"><li>- Validate the answer</li></ul>	<ul style="list-style-type: none"><li>- Category</li></ul>

<u>ADMIN CLASS</u>	
<ul style="list-style-type: none"><li>- Authentication (login, logout)</li><li>- Play the game</li><li>- View the ranking</li><li>- Aprove questions</li><li>- Add questions</li><li>- Edit questions</li><li>- Reject suggestions</li></ul>	<ul style="list-style-type: none"><li>- Ranking</li><li>- Category</li><li>- Question</li></ul>

# CLASS DIAGRAM



# THANKS

