

**Team:**

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**Title:** Rolypolly - A virtual polling system

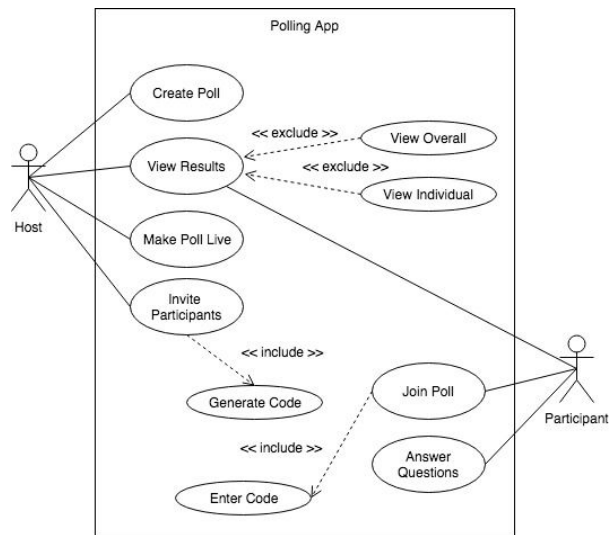
**Summary:** A web application which allows users to connect live to a central host and answer questions created by the host (similar to iclicker).

**User Requirements:**

ID	Description	Priority
US-01	As a <i>host</i> I want to <b>create a poll</b> so that I can collect results	1
US-02	As a <i>host</i> I want to <b>see the group results</b> of a poll I created so that I can gather data about the performance of the <i>participants</i> who took my poll.	3
US-03	As a <i>participant</i> I want to <b>get my results</b> after I answer a question so that I know if I'm right or wrong (or how I am categorized in the results)	3
US-04	As a <i>participant</i> I want to <b>join a poll</b> so that i can answer questions	3
US-05	As a <i>participant</i> I want to <b>answer questions</b> so that I can contribute to a poll	1
US-06	As a <i>host</i> I want to <b>make a poll live</b> so that <i>participant</i> can take my poll	2
US-07	As a <i>host</i> I want to <b>invite participants</b> to my poll so that they know my poll exists	2

Priority is on a scale of 1 - 3, where 1 is highest risk or importance and 3 is the least.

## Use Case Overview:



## “Create a Poll” Use Case Document:

<b>Use Case ID:</b>	UC-01
<b>Use Case Name:</b>	Create a Poll
<b>Description:</b>	Host users can create a poll. The host user can enter questions, and answers for each question. The poll can be saved by the host user to be used at a later time.

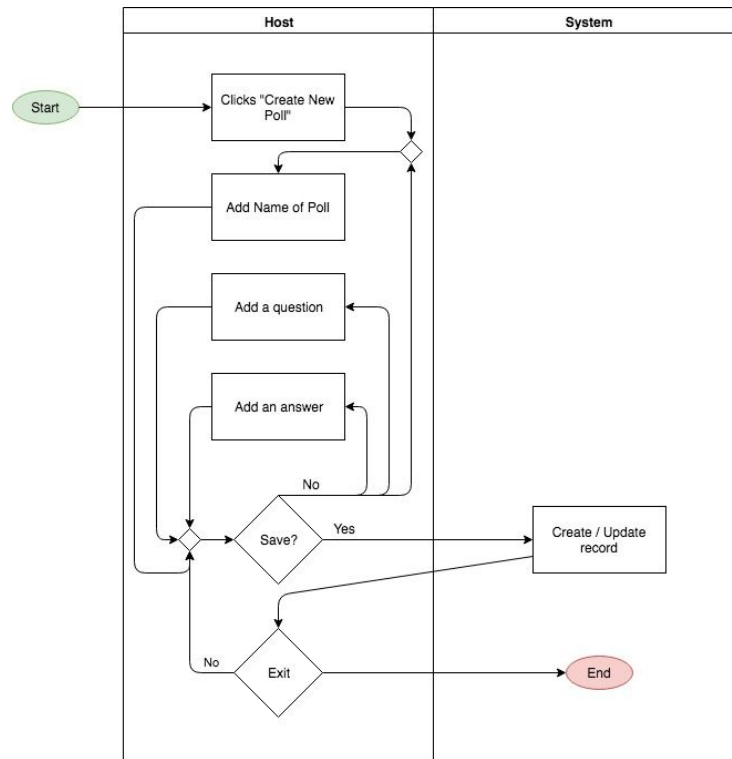
<b>Actors:</b>	Hosts		
<b>Pre-conditions:</b>	Host has received privilege from the admin to make an account. Host is logged in.		
<b>Post-conditions:</b>	Poll information has been saved into database. Host is given a confirmation message on successful save.		
<b>Frequency of Use:</b>	Dependent on Prof. (Daily, weekly, etc.)		
<b>Flow of Events:</b>		<b>Host Action</b>	<b>System Response</b>
	1	Clicks create new poll	Routes to creation page
	2	Names the poll	
	3	Adds questions	
	4	Adds answers	
	5	Clicks save poll	Stores poll onto database
<b>Variations:</b>	Clicks save poll after 2, 3, or 4 → go to 5. 4. Specify “correct” answer		
<b>Exceptions:</b>	2. Error message: Please enter a name. 4. Error message: At least one answer needed.		
<b>Developer Notes:</b>			

**“See Results” Use Case Document:**

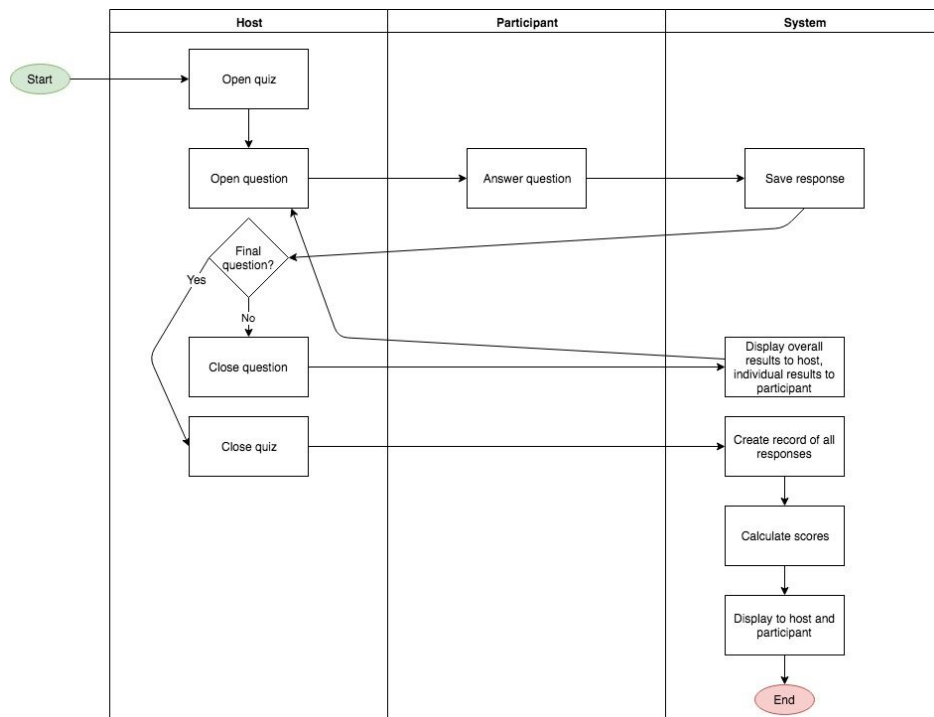
<b>Use Case ID:</b>	UC-02
<b>Use Case Name:</b>	See Results
<b>Description:</b>	A Host can view the results of a poll after the poll has been taken by participants. Participants can view feedback after each question, and get a score after the poll.

<b>Actors:</b>	Host, Participant		
<b>Pre-conditions:</b>	Host has made poll live. Host has generated a poll code. Participants have entered code and responded to a question. Host has closed question.		
<b>Post-conditions:</b>	Participants have received feedback. System has saved results to database.		
<b>Frequency of Use:</b>	Dependent on Prof. (Daily, weekly, etc.)		
<b>Flow of Events:</b>		<b>Host Action</b>	<b>System Response</b>
	H1	Close question(s)	Display results after each closed question.
	H2	Close quiz	Display summary of quiz results
	H3		
	H4		
		<b>Participant Action</b>	<b>System Response</b>
	P1	Choose an answer to current question	Display correct answer and feedback (H1)
	P2	Answer last question	Display participant's total quiz results (H2)
	P3		
	P4		
	P5		
<b>Variations:</b>	H1. Click 'View Results' of a dated poll → Redirect to Results page		
<b>Exceptions:</b>	4.		
<b>Developer Notes:</b>			

## UC-01 Activity Diagram:



## UC-02 Activity Diagram:



**Participant UI:**

The figure displays four sequential screenshots of a mobile application interface, illustrating the process of creating and taking a poll.

- Screenshot 1 (Leftmost):** Shows the "RolyPolly" app title. Below it, there are two input fields: "Please Enter Poll Code." and "Please Enter Your Name." At the bottom, there is a "Start Poll" button.
- Screenshot 2:** Displays the poll question: "Which of the following are true with regards to doing a Requirements Analysis?". Below the question, there are five radio button options:
  - ☐ Determine the classes required for the system
  - ☒ Identify conflicts in the requirements
  - ☐ Show off how smart you are to the client
  - ☐ Demonstrate how the requested features correlate with system configuration
  - ☐ None of these
 At the bottom, there is a "Submit" button.
- Screenshot 3:** Shows the same poll question and options as Screenshot 2. The option "Identify conflicts in the requirements" is selected and highlighted with a green background.
- Screenshot 4 (Rightmost):** Displays the "FINAL SCORE" as "80%".

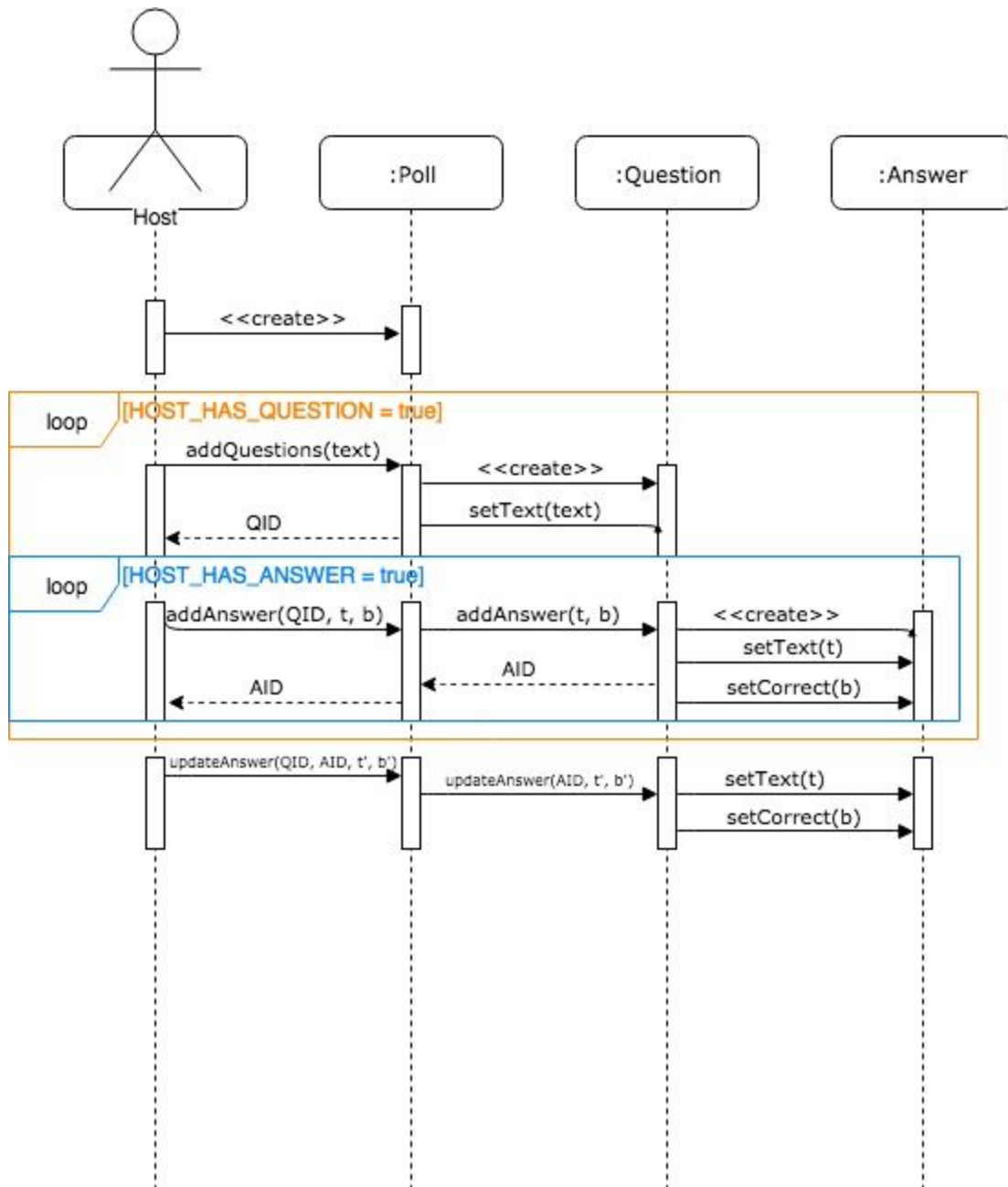
**Host UI:**

The image displays a sequence of four screenshots illustrating the development of a web application named "RolyPolly".

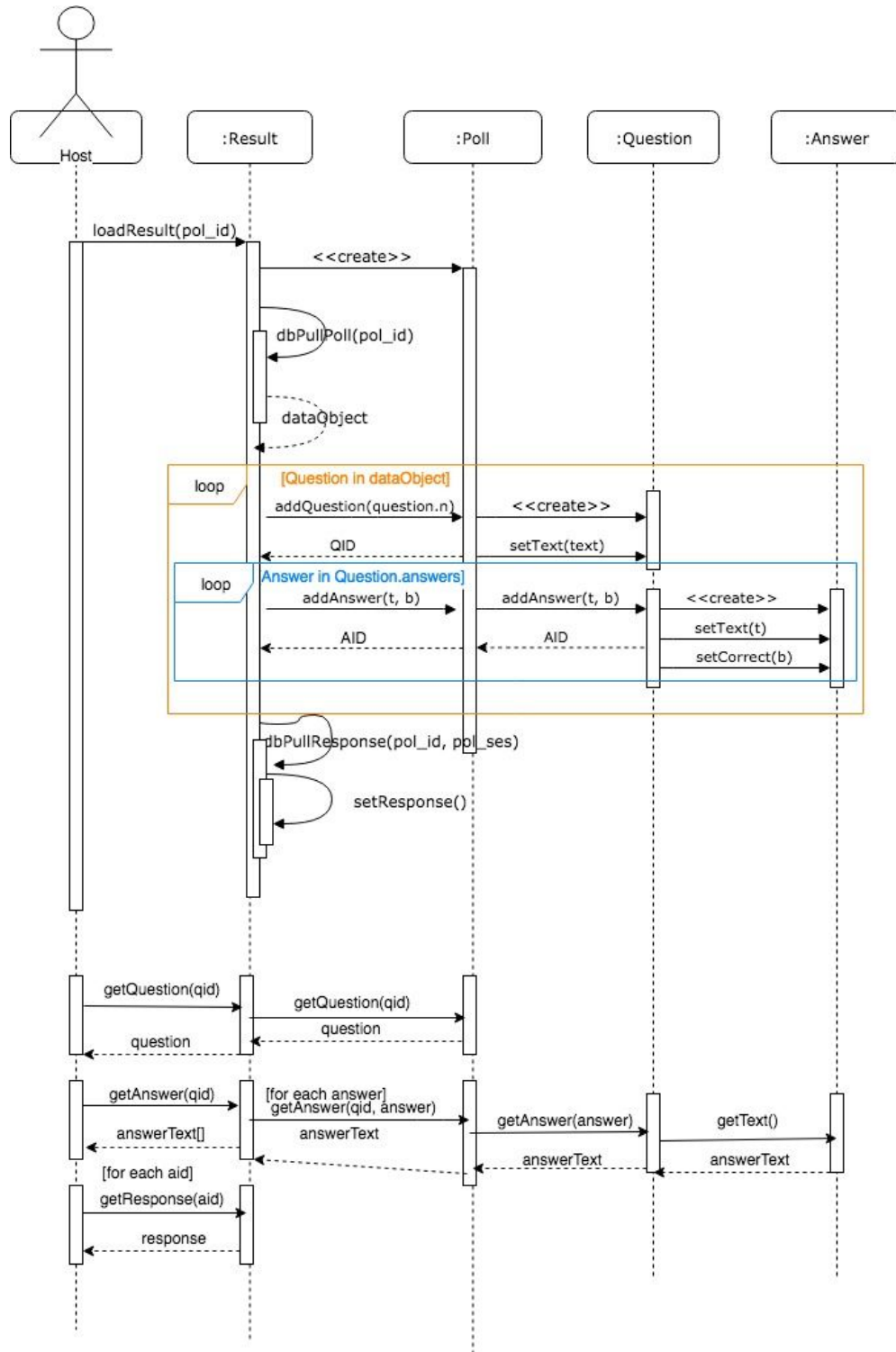
- Top Left Screenshot:** Shows the initial state of the application. The sidebar menu lists "Available Polls" with items like "Week 7 Poll - Design Patterns Part 1", "Week 5 Poll - UML, Requirements", "Week 3 Poll - OOP, OOD", and "Week 1 Poll - OO Programming". The main content area is empty. A red box highlights the "Edit" button in the sidebar menu.
- Top Right Screenshot:** Shows the application after a new poll has been added. The sidebar menu now includes "Week 5 Poll - UML, Requirements". The main content area displays the poll details, including a histogram showing the distribution of answers. A red box highlights the "Open New Poll" button.
- Bottom Left Screenshot:** Shows the application after a new poll question has been added. The sidebar menu now includes "Week 7 Poll - Design Patterns Part 1". The main content area displays the poll details, including a list of answers. A red box highlights the "Add Answer" button.
- Bottom Right Screenshot:** Shows the application after a new poll has been published. The sidebar menu now includes "Live - Week 5 Poll - UML, Requirements". The main content area displays the poll details, including a histogram showing the distribution of answers. A red box highlights the "Next" button.

Red arrows indicate the flow of development from one state to the next, showing the progression from an empty application to a fully functional one with multiple polls and a live poll.

## UC-01 Sequence Diagram:



## UC-02 Sequence Diagram:



Class Diagram:

