

SWE363

Web Engineering & Development

Term-Project Phase one

Survey System

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I. Abstract:

The idea is to have a system that allows the users to create, publish, edit, and answer surveys and see the statistics of the surveys. The system will consist of three main users which are surveyors (pollsters, teachers, or researchers), respondents (students, or workers) and general users who only respond to the surveys anonymously. The main goal of the system is to make the process of surveys as easy as possible with minimum registration information for users, and display the statistics of surveys in easy and modern way.

II. Goals

There are three main goals for me to build this website and try my best to come up with something creative. First, I am building this website as a gift for my father because at the second week of this semester he asked me if I could build for him something looks like this website (<https://learningislam.com/placement-test/7>). Unfortunately, I wasn't capable to build it, so now I have the knowledge and the sources to build it. Second, I want to learn through the process of building the website, and have confidence in myself that I could do it. Finally, building a website that allow the users to make and respond to surveys is not something new at all, and there are a lot of great examples like (google forms, and socrative). But I would like to come up something will make the process much easier especially for KFUPM students, and teachers.

III. Purpose

Managing surveys and see the collected data is not an easy task. Surveyors need easy and fast way to access their surveys and share it with other. However, what I think is more important is an easy access to answer the surveys because if the process to answer a survey is long and need many steps to complete the users will be annoyed, and it may affect their answer.

IV. Users Description and Functionality

A. Surveyors

The surveyors will be able to create, and publish surveys either for a specific group of audience like students, and employees or general group of audience like citizens of Dhahran. Also the surveyors will be able to edit and see the statistics of the surveys.

a. Surveyors Functionality

1. Sign up

Sign up will require username, email, password, and confirm password only. The conformation of the user email will be done by sending random number consist of 6 digits to the user email which will be entered to a conformation page after the sign in page.

2. Sign in

Sign in process will requires entering the username/email and password to enter to the user account.

3. Create survey

The surveyors will be able to create surveys which will have combination of two different type of questions either multiple choice questions or written questions. The multiple choice questions will have minimum and maximum number of choices which are 2, and 6 respectively. The written questions will be either quantitative like age, or qualitative like describe your job.

4. Publish survey

If the surveyor aims for a specific audience like a teacher with his students or a manager with his workers; a survey name made by the surveyor consists of letters and numbers will be given to the users to enter to the specific survey. The second case when the surveyor aims for general audience a URL will be generated and send publically (example survey for an event that happened in Khobar corniche)

5. Edit survey

Editing the survey will allow the users to change and edit a specific question, add a question, delete a question, change questions order, and change the number of questions in one page.

6. Delete survey

Deleting a survey will delete all the data and statistics of the survey permanently.

7. See statistics of a survey

The statistics of a survey that will be shown to the surveyors will be

1. Number of respondents
2. The total number or percentage of a specific answer in multiple choice questions
4. If the surveyor aims for a specific group of audience, he will be able to see the answers for every individual respondent which will be told to them for privacy reasons (example: midterm time for swe363 every student will enter the preferred time and the conflict if any so the teacher can see the students who have conflict and contact with them).

B. Respondents

Respondents are the users who answers for a specific survey shared with them by the surveyor like teacher and students

a. Respondents Functionality

1. Answer a survey

To answer a survey, the users will be required to enter name, email, and survey name (survey name will be made by the surveyor) to get the access for this specific survey. The conformation of the user email will be done by sending random number consist of 6 digits to the user email which will be entered to a conformation page after entering the user information.

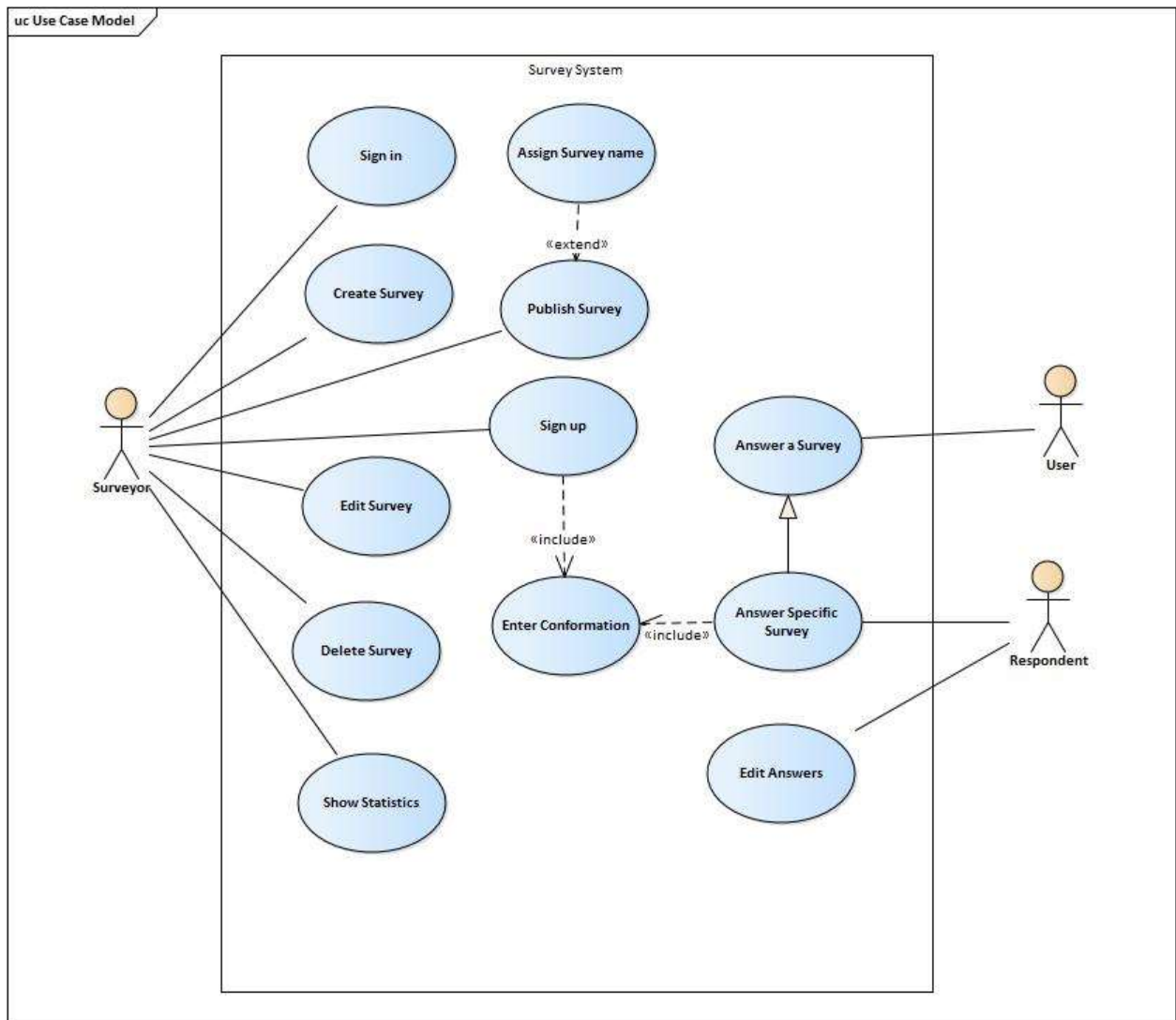
2. Edit answers

If the user wants to edit an answer(s) for a specific survey he needs only to reenter his information which are name, email, and survey name and do the conformation process for the email. Because the user has answered the survey before the system will fill all the questions for the user and let him changes what he wants.

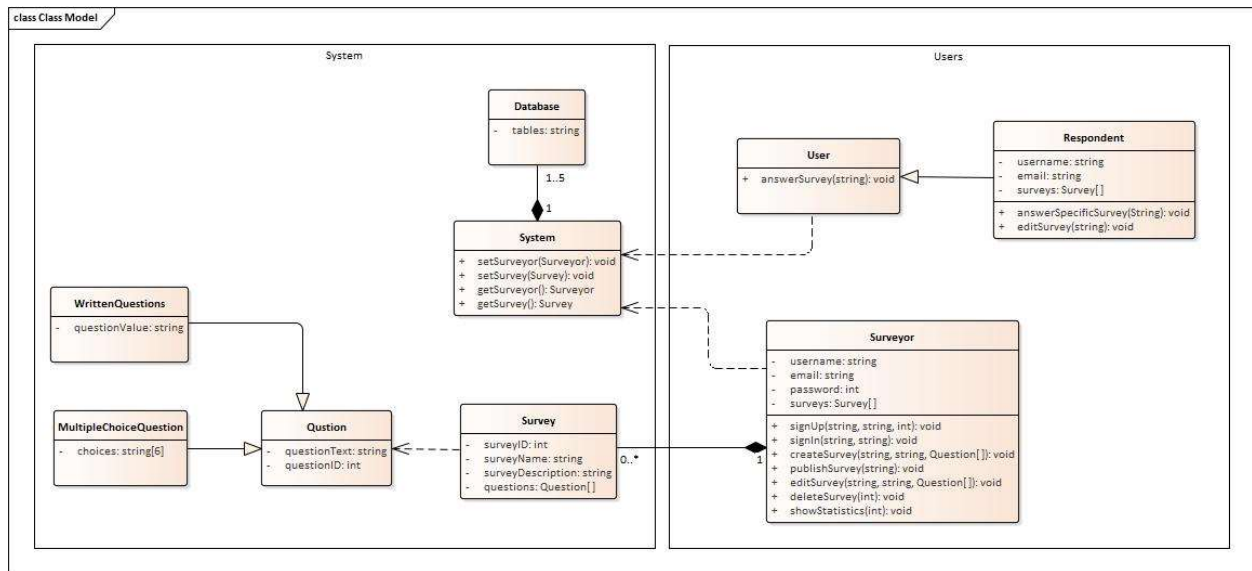
C. General Users

General users will be able to browse the website and answer for the general surveys that sent by the surveyor by URL. The only functionality of the general users is to answer for a specific survey without any need to sign in, or enter any personal information like name, email, and phone number unless it is asked by the surveyor.

V. Use Case Diagram.



VI. Class Diagram.



VII. Uses Cases

A. Sign up.

Use Case Number	#1
Precondition(s)	No Precondition(s)
Successful Post Condition	Signed up for the system
Actors	Surveyor
Priority	High
Difficulty	Easy
Version	1.0
Related Use Case	Enter Confirmation

Main Flow:

1. Surveyor will click sign up button
2. Enter username, email, password, and confirmation of password
3. Email will be sent by the server to the Surveyor that includes the confirmation code
4. The Surveyor enter the confirmation code
5. Surveyor data will be added to the database

Alternate Flows:

1. Error message will be shown to the Surveyor if the entered data don't follow the specified pattern. Also error message will be shown when the Surveyor enters wrong confirmation code.

B. Sign in.

Use Case Number	#2
Precondition(s)	Signed up successfully
Successful Post Condition	Signed in to the dashboard page of the surveyor
Actors	Surveyor
Priority	High
Difficulty	Easy
Version	1.0
Related Use Case	None

Main Flow:

1. Surveyor will click sign in button
2. Enter username/email, and password that used when signed up
3. The dashboard page will be shown to the user

Alternate Flows:

1. Error message will be shown to the Surveyor when the data entered are wrong.

C. Enter Confirmation.

Use Case Number	#3
Precondition(s)	Enter confirmation page will be shown in two cases: 1.When the Surveyor sign up for the first time 2.When a Respondent want to answer a survey
Successful Post Condition	There are two successful post condition: 1.The surveyor will sign up to the system and the dashboard page will be shown 2.The system will show the specific survey that the Respondent want to answer
Actors	Surveyor, and Respondent
Priority	High
Difficulty	Medium
Version	1.0
Related Use Case	Sign up, and answer a survey

Main Flow:

There two main flow:

- 1.1. The (Surveyor/Respondent) finish the (sign up/answer a survey) process
- 1.2. Email will be sent by the server to the (Surveyor/Respondent) that includes the confirmation code
- 1.3. The (Surveyor/Respondent) will enter the confirmation code
- 1.4. The dashboard will be shown to the Surveyor, and answer survey page will be shown to the respondent

Alternate Flows:

- 1.Error message will be shown to the (Surveyor/Respondent) if the entered confirmation code is wrong.

D. Create Survey.

Use Case Number	#4
Precondition(s)	Signed up, and Signed in
Successful Post Condition	A survey with a specific name, description, and different types of questions either multiple choice or written question will be added to the database
Actors	Surveyor
Priority	High
Difficulty	High
Version	1.0
Related Use Case	Assign Survey Name

Main Flow:

1. Surveyor signed in to the website.
2. Surveyor click create survey button.
3. Create survey page will be shown to the Surveyor.
4. Surveyor will enter the survey name, survey description, and different type of questions (multiple choice questions/written questions)

Alternate Flows:

1. when the Surveyor enter used name by another user an error message will be shown to the Surveyor.

E. Edit Survey.

Use Case Number	#5
Precondition(s)	Signed up, signed in, and the survey must have been created by the Surveyor
Successful Post Condition	The surveyor will be able to do changes to the survey add questions (multiple choice/ written), delete questions, change survey description, and change survey name
Actors	Surveyor
Priority	High
Difficulty	High
Version	1.0
Related Use Case	Create Survey

Main Flow:

1. Surveyor sign in to the dashboard page
2. Surveyor choose a specific survey to edit by clicking the edit icon at the survey card
3. The edit page will open which is the same is create survey, but the page will be automatically filled with the previous questions and survey data.
4. Surveyor will be able to add, delete, change specific question, change survey name, and change survey description.

Alternate Flows:

1. Error message will be shown to the Surveyor when the survey name changed to a used name by another user.

F. Publish Survey.

Use Case Number	#6
Precondition(s)	Signed up, signed in, and the survey must have been created by the Surveyor
Successful Post Condition	Surveyor have two options to publish the survey either share the survey name with the Respondent, or send a URL for the survey.
Actors	Surveyor
Priority	High
Difficulty	High
Version	1.0
Related Use Case	Create Survey

Main Flow:

1. Surveyor sign in to the dashboard
2. Surveyor create survey and assign all the needed data for the survey
3. The Surveyor has to option to share the survey with other either send the URL, or send the survey name.

Alternate Flows:

G. Delete Survey.

Use Case Number	#7
Precondition(s)	signed in, and the survey must have been created by the Surveyor
Successful Post Condition	The survey will be deleted permanently
Actors	Surveyor
Priority	Medium
Difficulty	Medium
Version	1.0
Related Use Case	None

Main Flow:

1. Surveyor sign in to the dashboard
2. The website will ask the Surveyor for confirmation to delete the survey
3. The survey will be deleted permanently from the database

Alternate Flows:

- 1.The survey will not be deleted when the Surveyor chooses to cancel the confirmation.

H. Show Statistics.

Use Case Number	#8
Precondition(s)	Signed in
Successful Post Condition	The survey data will be shown to the Surveyor
Actors	Surveyor
Priority	High
Difficulty	Medium
Version	1.0
Related Use Case	None

Main Flow:

1. Surveyor sign in to the dashboard
2. Surveyor click on the statistics icon
3. The statistics page will be shown to the Surveyor

Alternate Flows:

I. Answer Survey.

Use Case Number	#9
Precondition(s)	The user will enter to the survey using the published URL
Successful Post Condition	The survey page will be shown to the user to answer for the questions
Actors	user
Priority	High
Difficulty	Medium
Version	1.0
Related Use Case	Answer Specific Survey

Main Flow:

1. The Surveyor will create the survey
2. Surveyor will publish the survey using the URL for the survey
3. User will enter the survey page through the URL

J. Answer Specific Survey

Use Case Number	#10
Precondition(s)	Enter name(any name entered by the Respondent), email, survey name, and the confirmation code which will be sent to the Respondent through the email
Successful Post Condition	The survey page will be shown to the Respondent to answer for the questions
Actors	Respondent
Priority	High
Difficulty	Medium
Version	1.0
Related Use Case	Answer Survey, and Enter Confirmation

Main Flow:

1. Respondent clicks answer survey button at the first page
2. Respondent enters name, email, and survey name
3. Confirmation code will be sent to the Respondent through the email
4. The survey page will be shown to the Respondent
5. Respondent answers the survey
6. Respondent submits the survey

Alternate Flows:

1. Error message will be shown to the Respondent if the entered data don't follow the specified pattern. Also error message will be shown when the Surveyor enters wrong confirmation code.

K. Edit Answer

Use Case Number	#11
Precondition(s)	The Respondent should have answered the survey before. Also, the Respondent must use the same email that was used at the first time
Successful Post Condition	Enter to the answer survey page to edit the desired answers
Actors	Respondent
Priority	Medium
Difficulty	High
Version	1.0
Related Use Case	Answer Specific Survey

Main Flow:

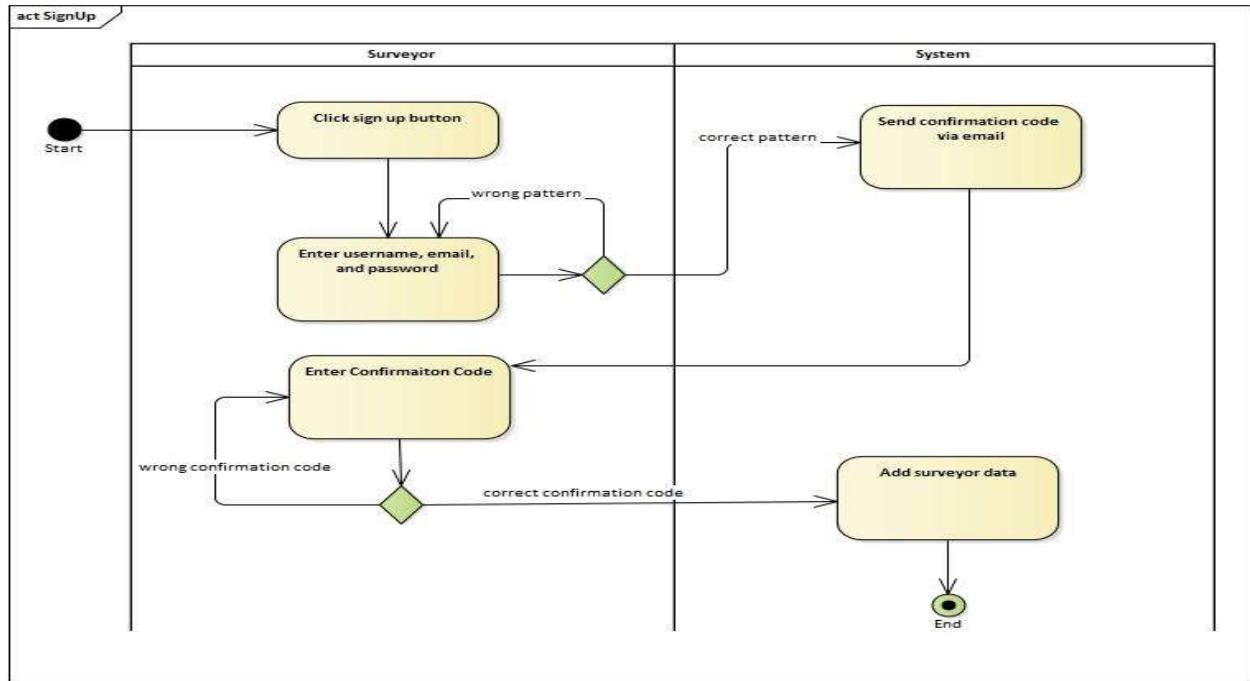
1. Respondent clicks answer survey button at the first page
2. Respondent enters name, email, and survey name
3. Confirmation code will be sent to the Respondent through the email
4. The survey page will be shown to the Respondent with the previous answers
5. Respondent edits the survey
6. Respondent submits the survey

Alternate Flows:

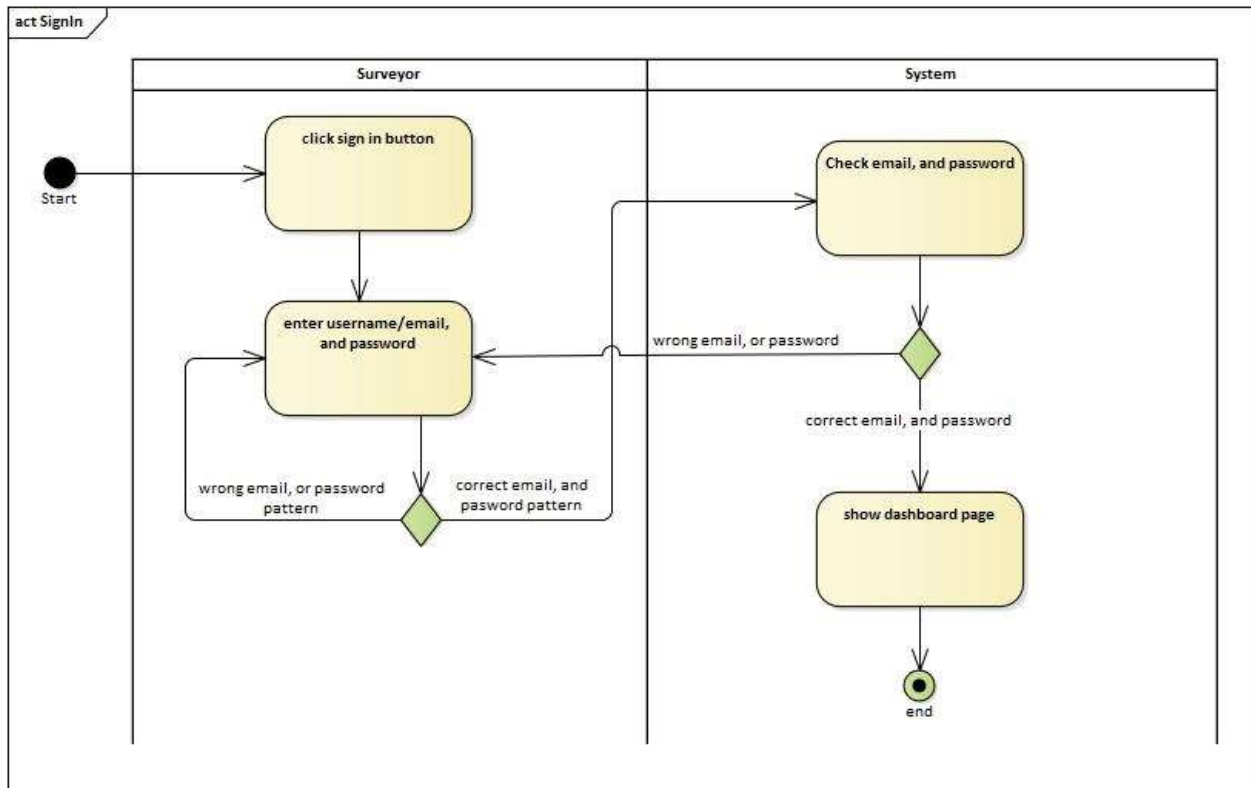
1. Error message will be shown to the Respondent if the entered data don't follow the specified pattern. Also error message will be shown when the Surveyor enters wrong confirmation code.

VIII. Activity Diagrams

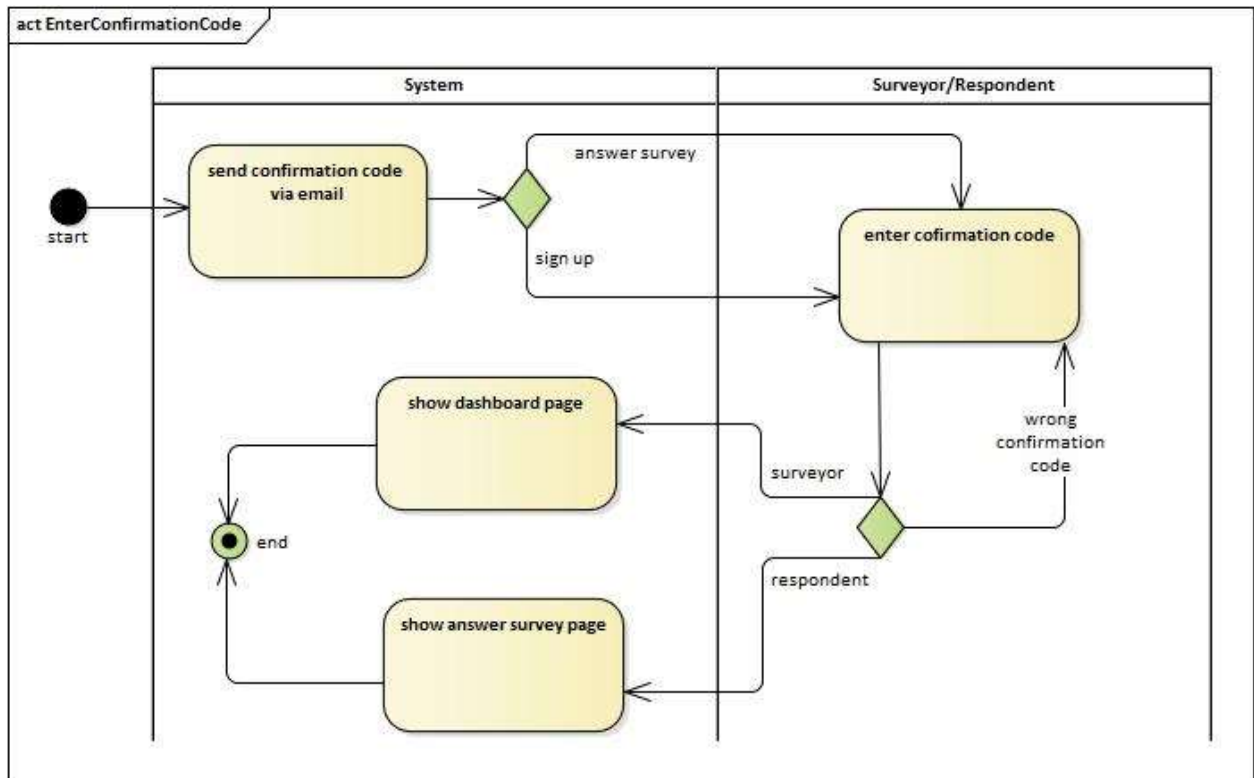
A. Sign Up



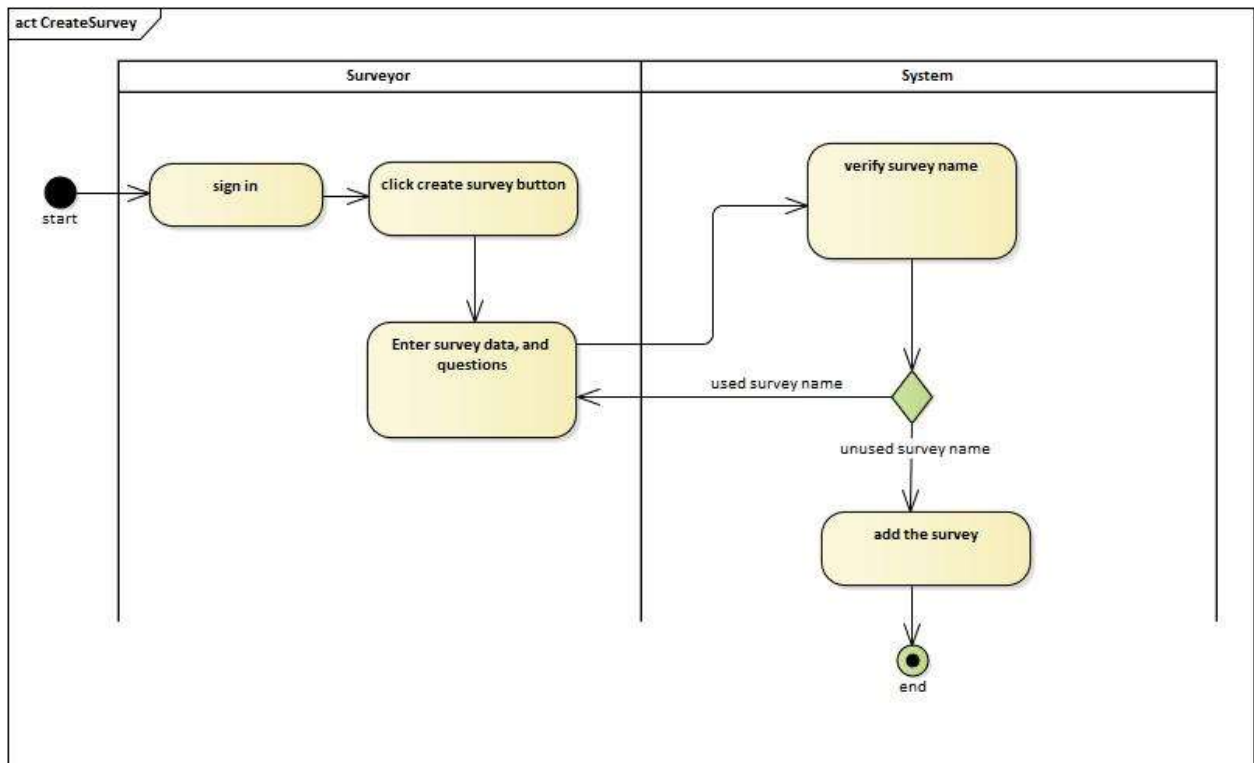
B. Sign In



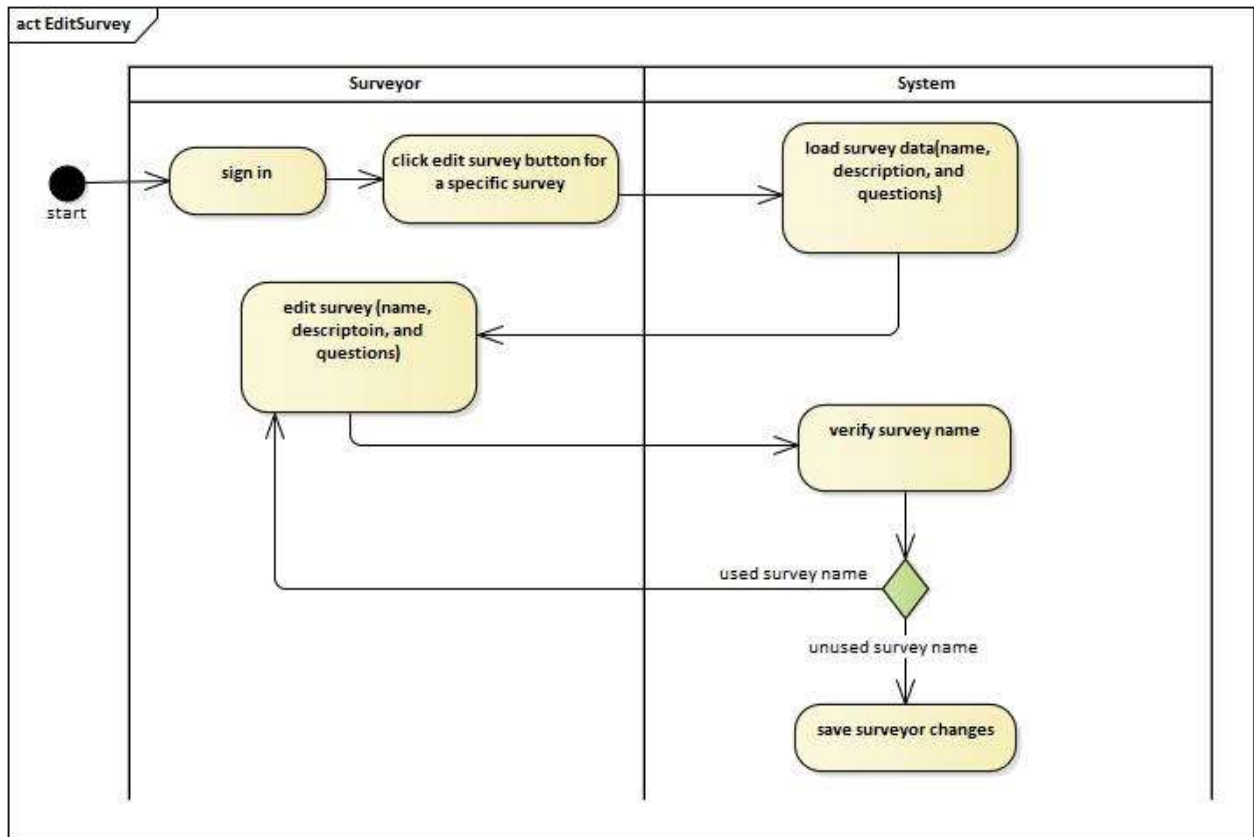
C. Enter Confirmation Code



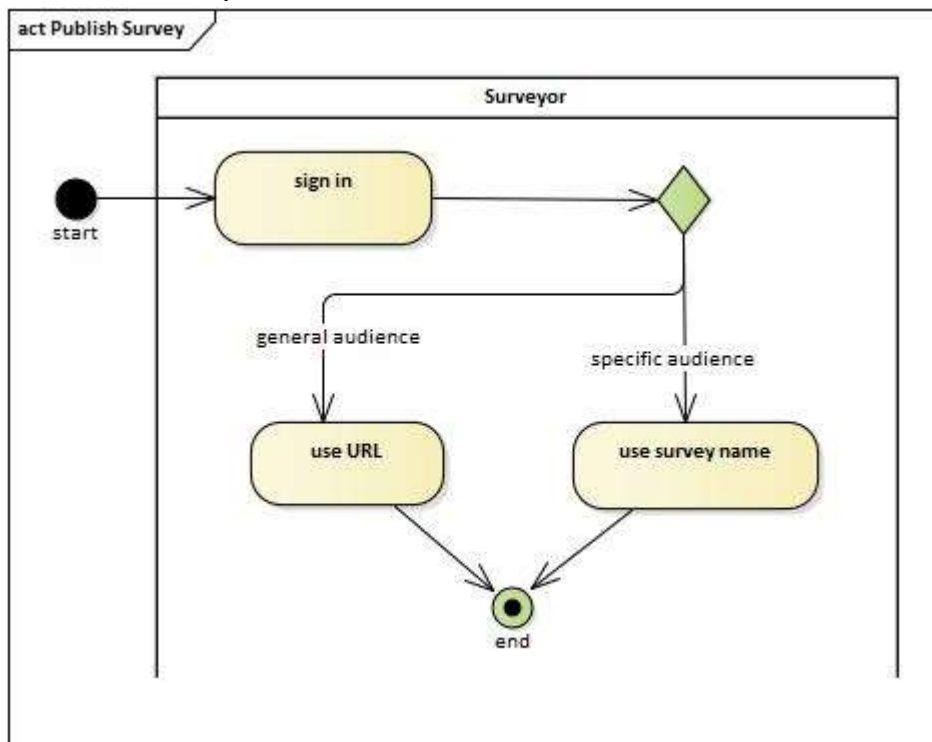
D. Create Survey



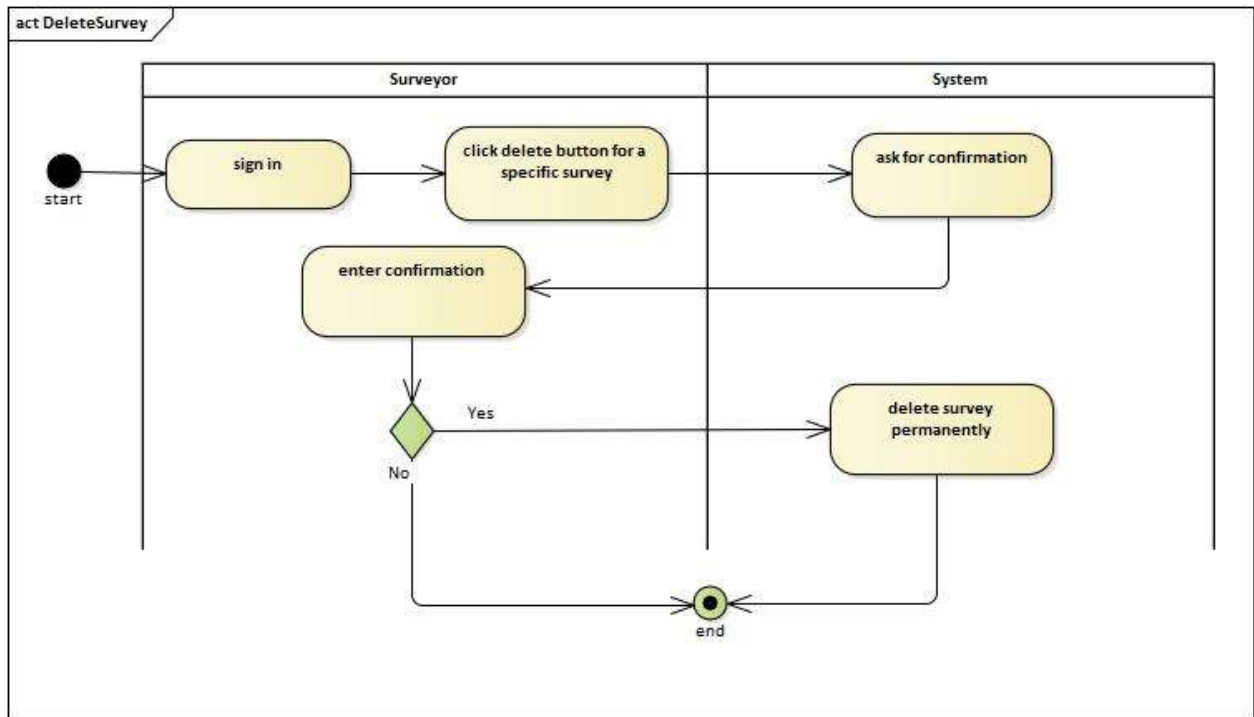
E. Edit Survey



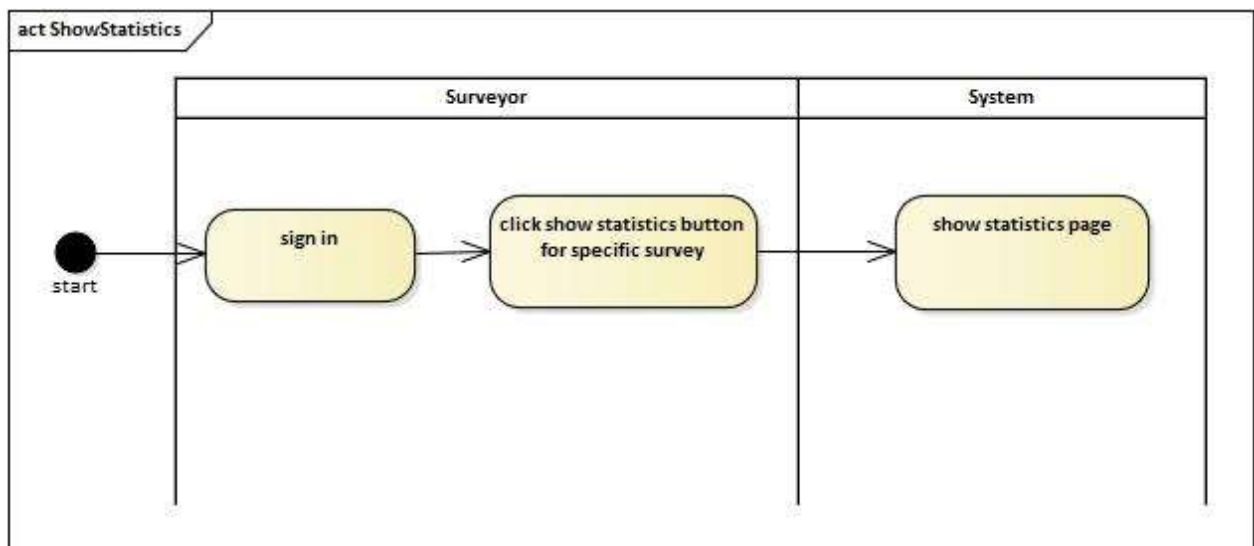
F. Publish Survey



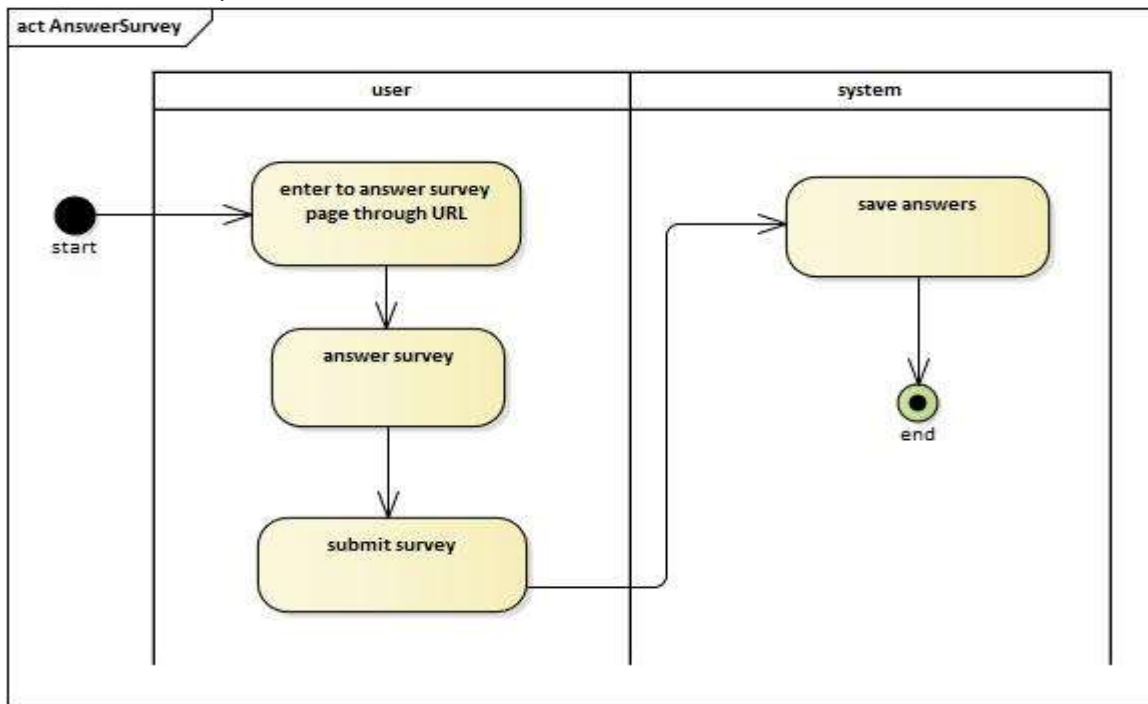
G. Delete Survey



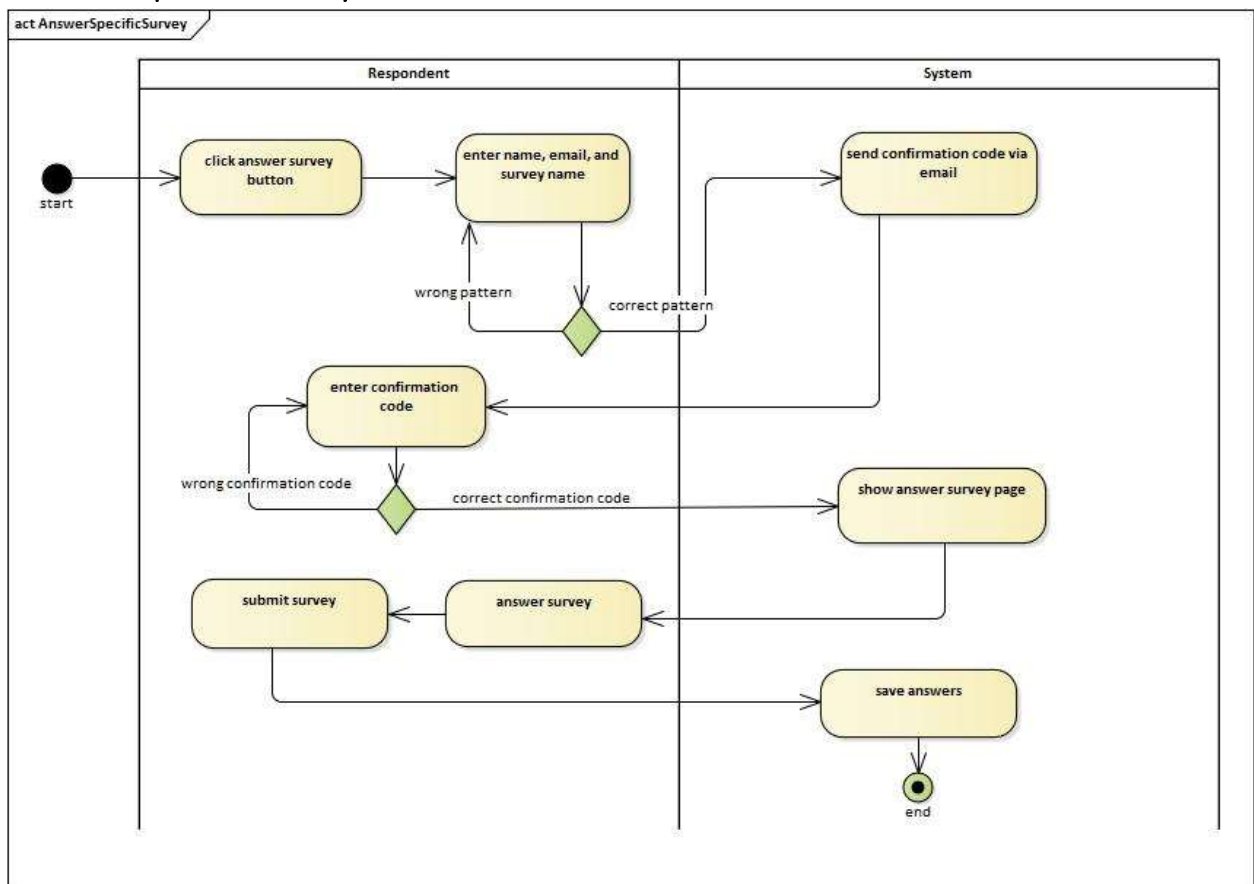
H. Show Statistics



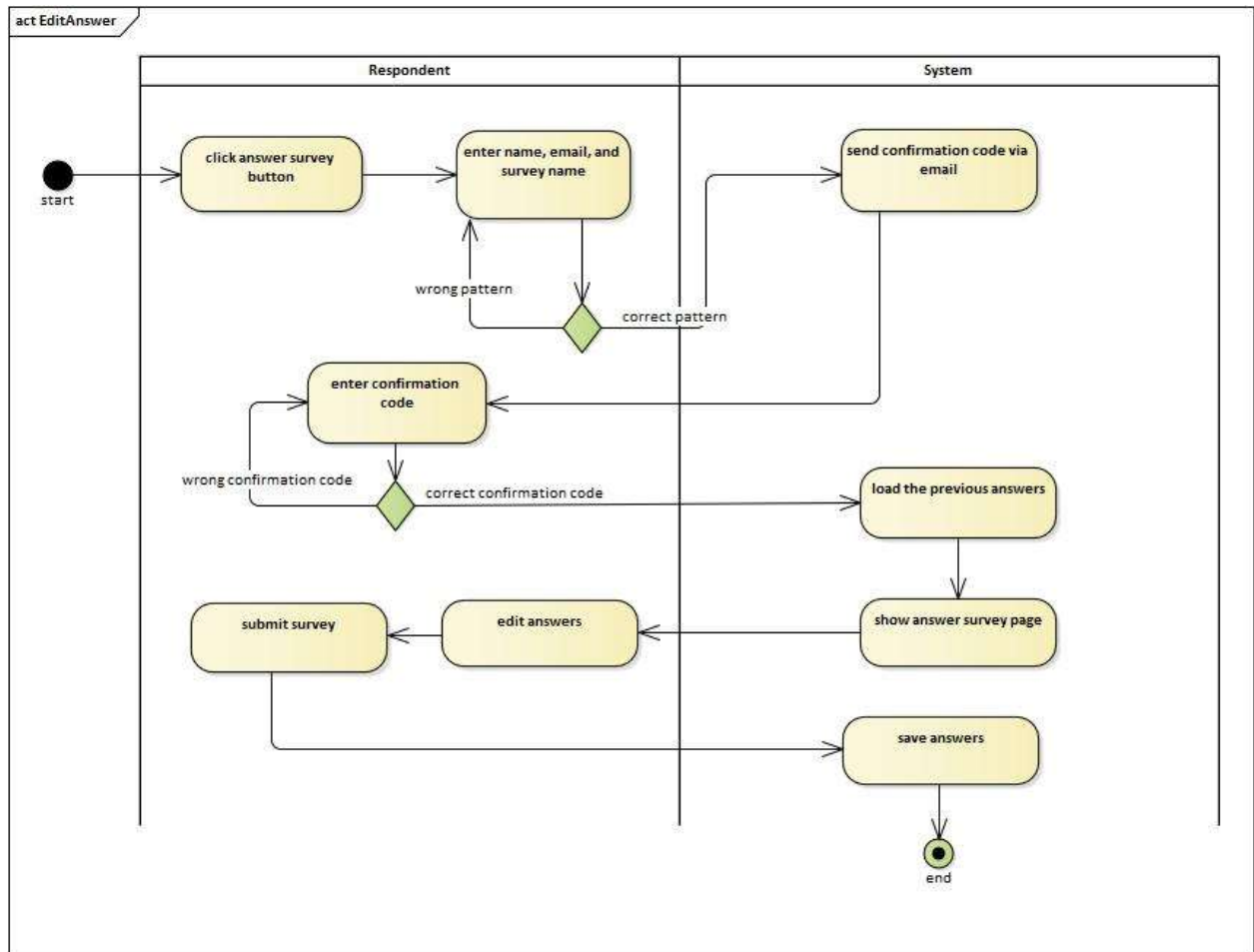
I. Answer Survey



J. Answer Specific Survey

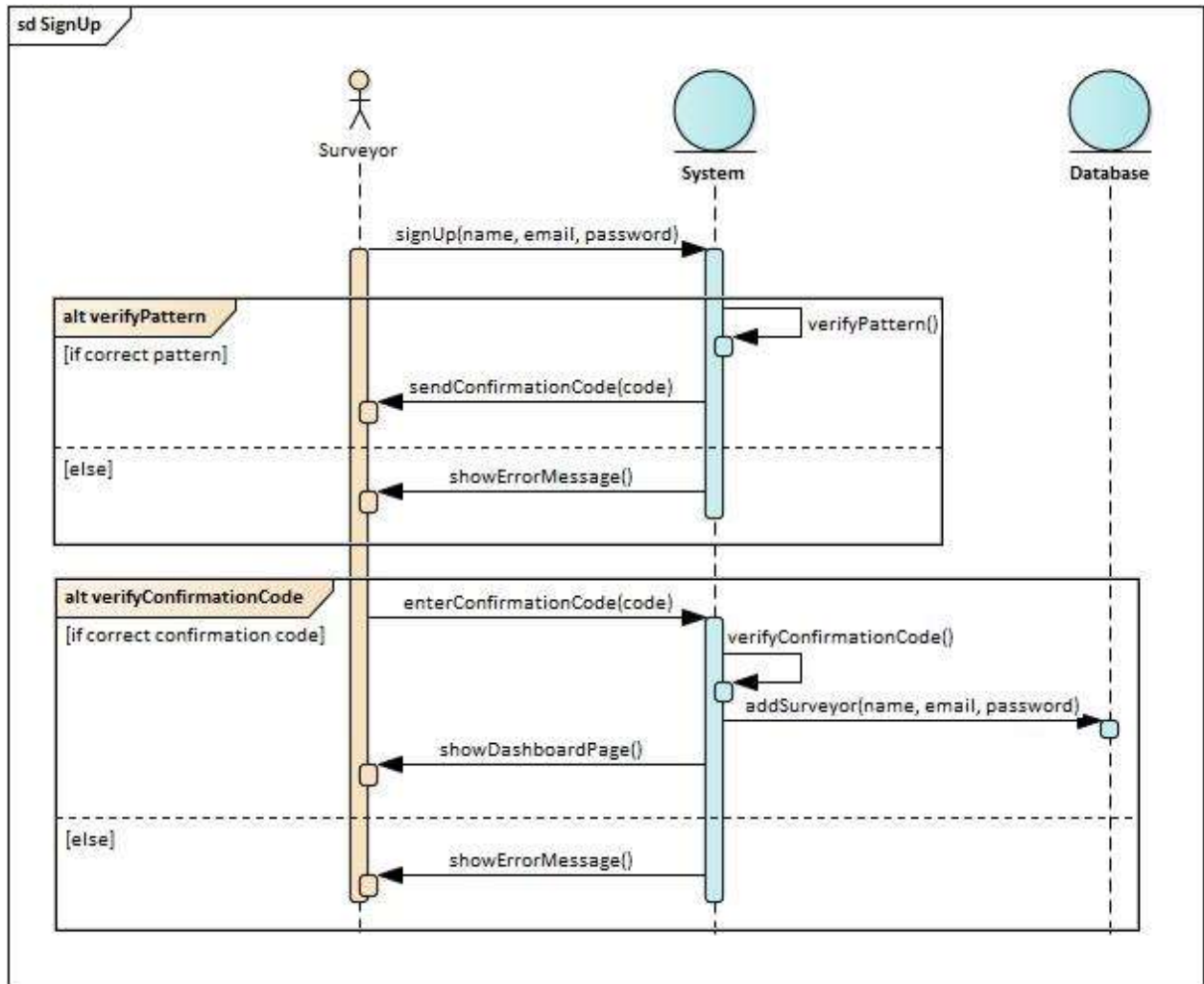


K. Edit Answer

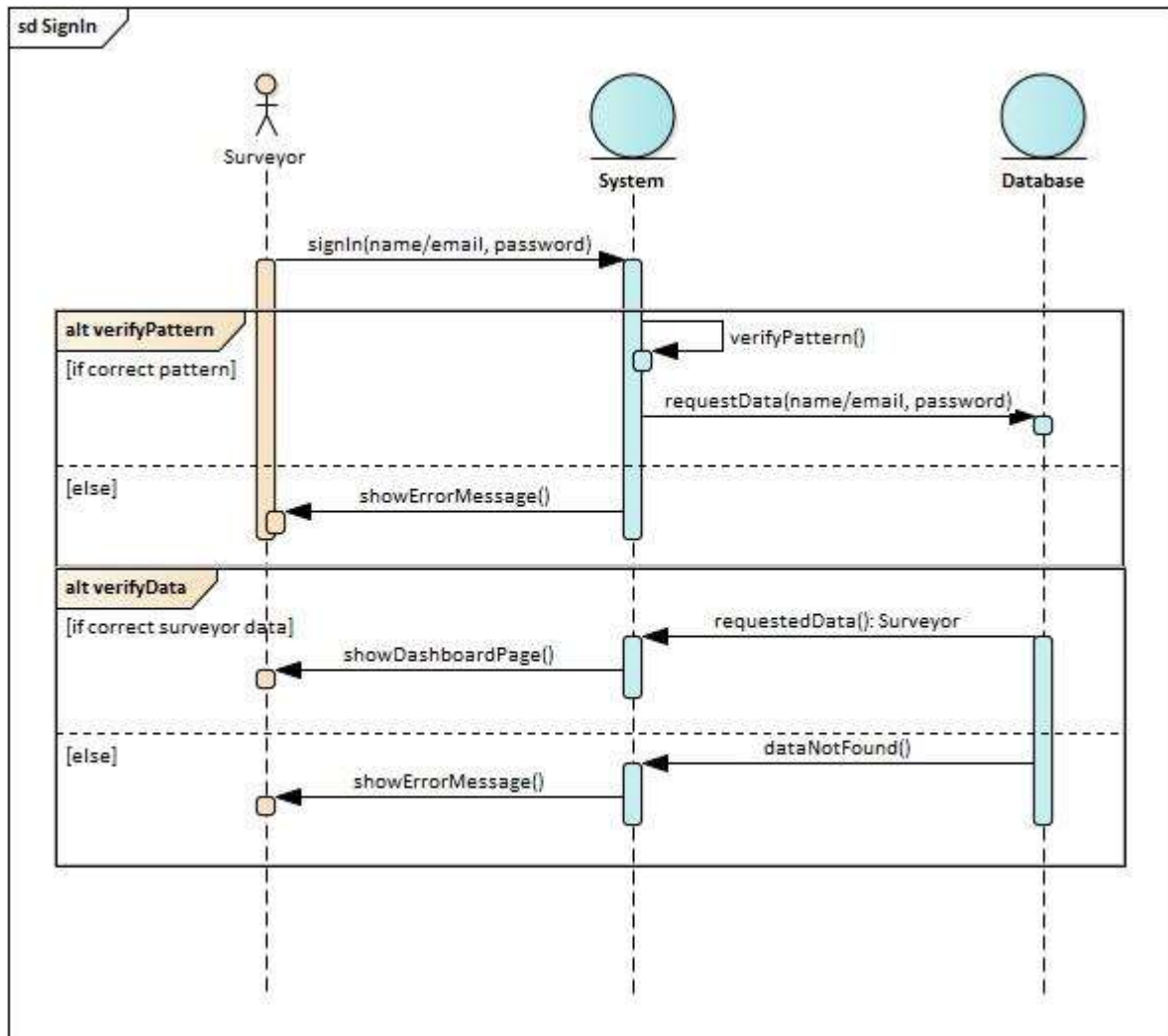


IX. Sequence Diagrams

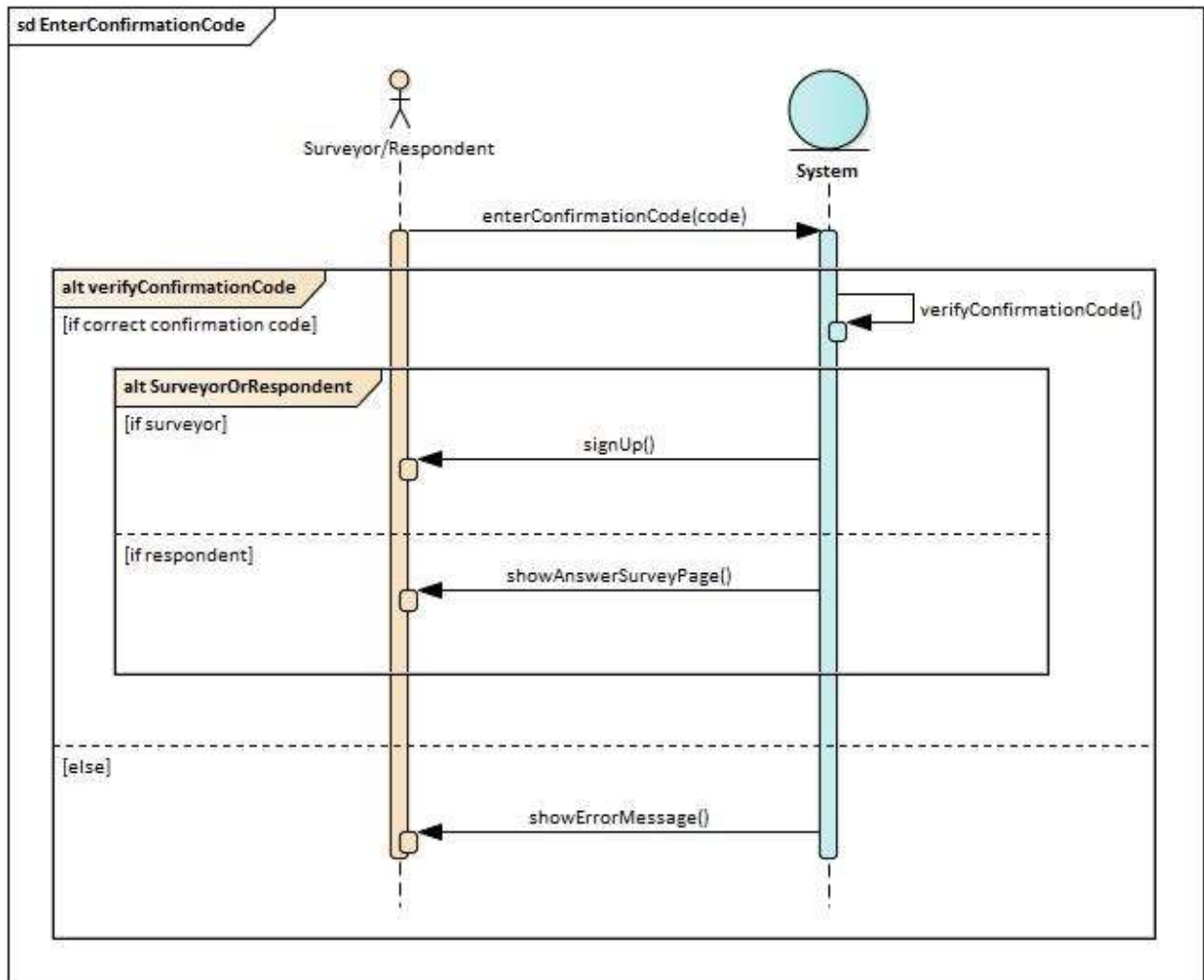
A. Sign Up



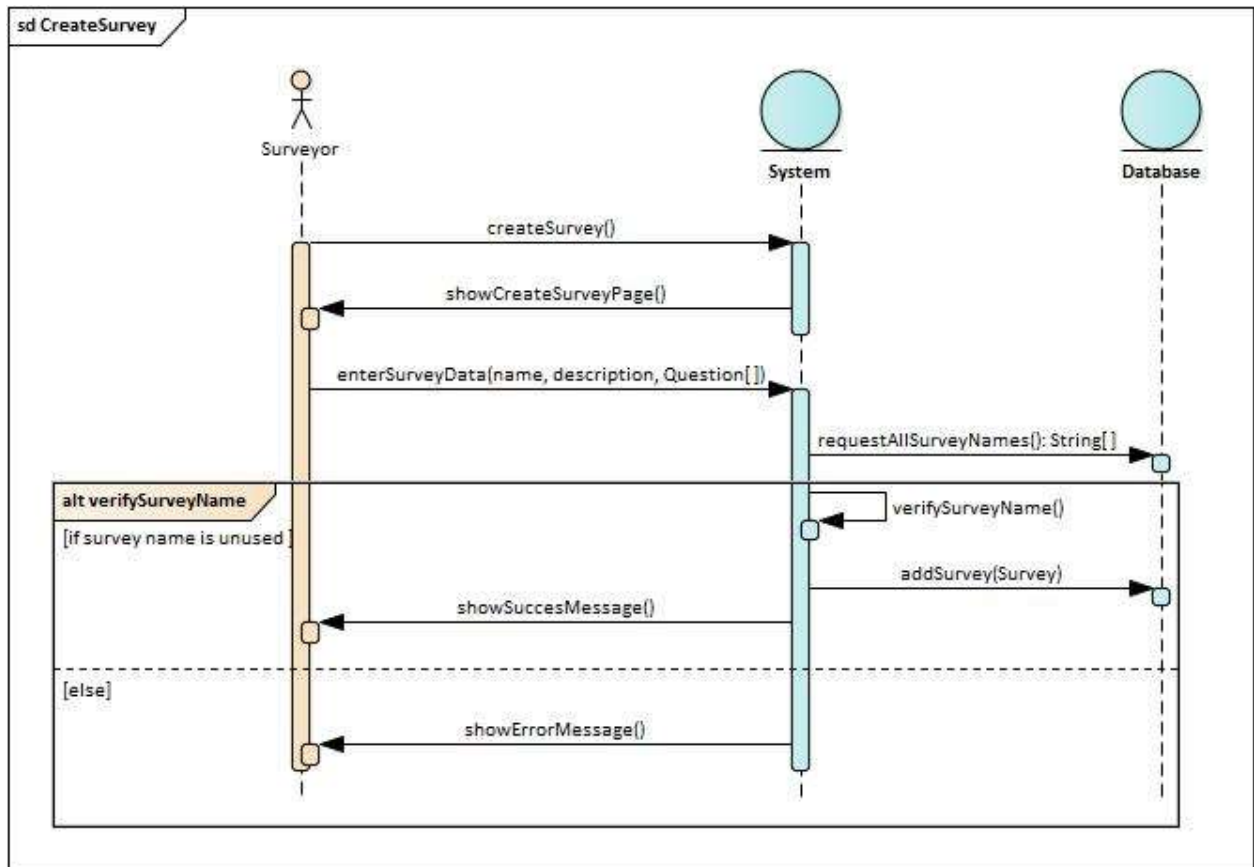
B. Sign In



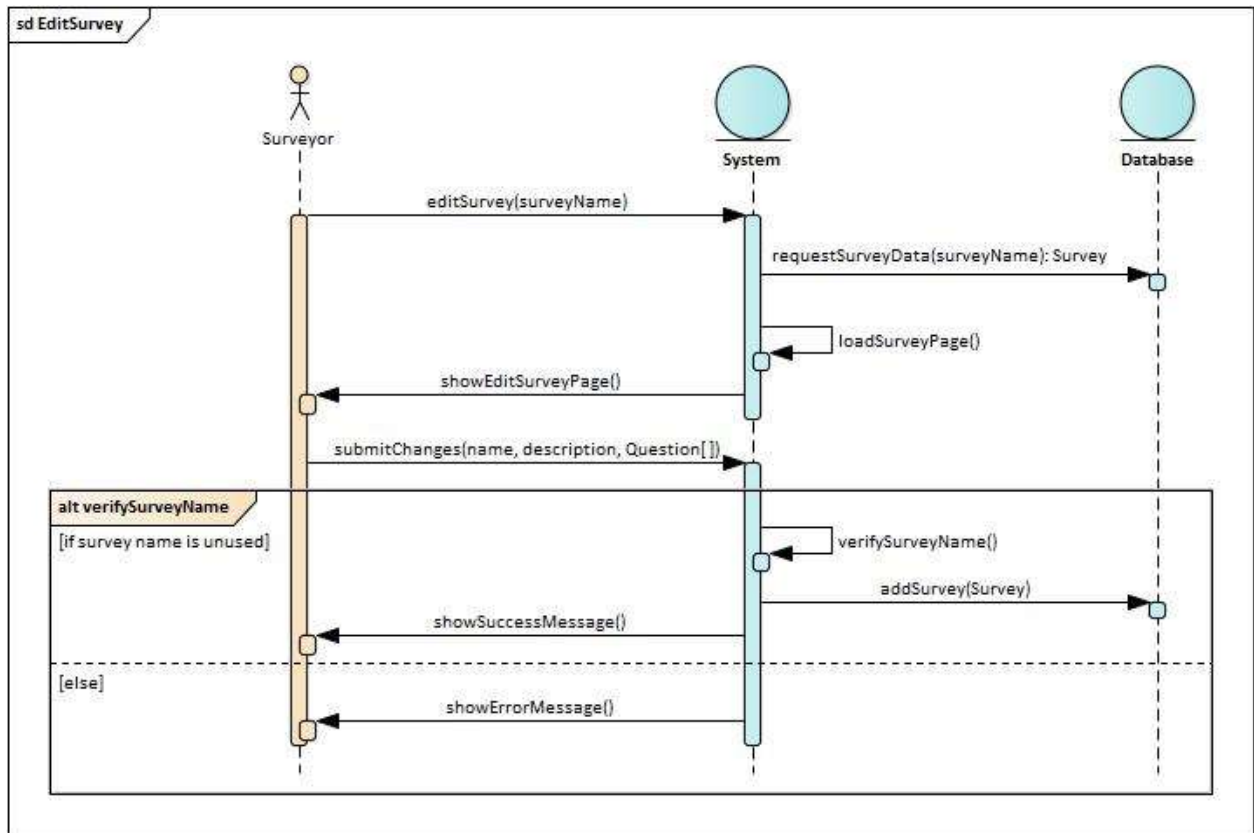
C. Enter Confirmation Code



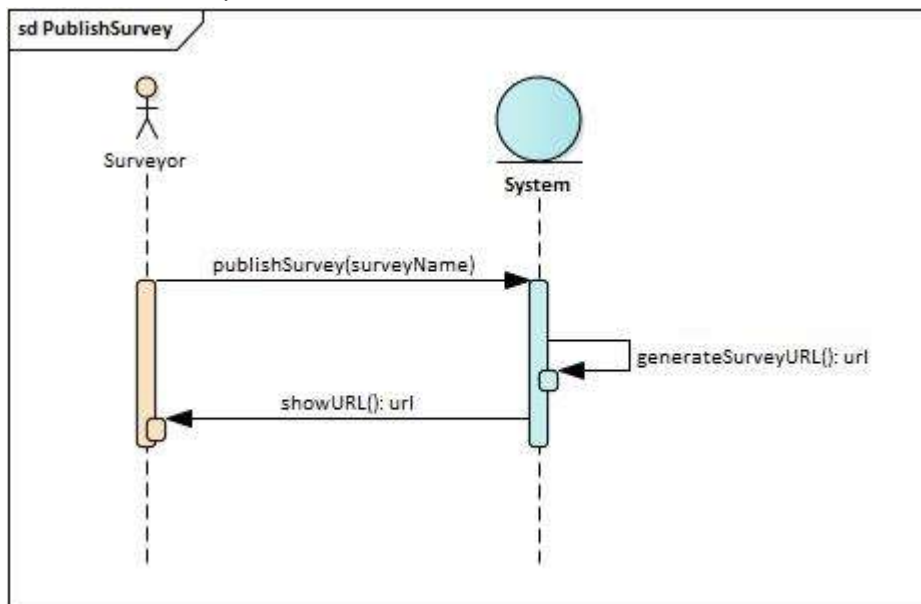
D. Create Survey



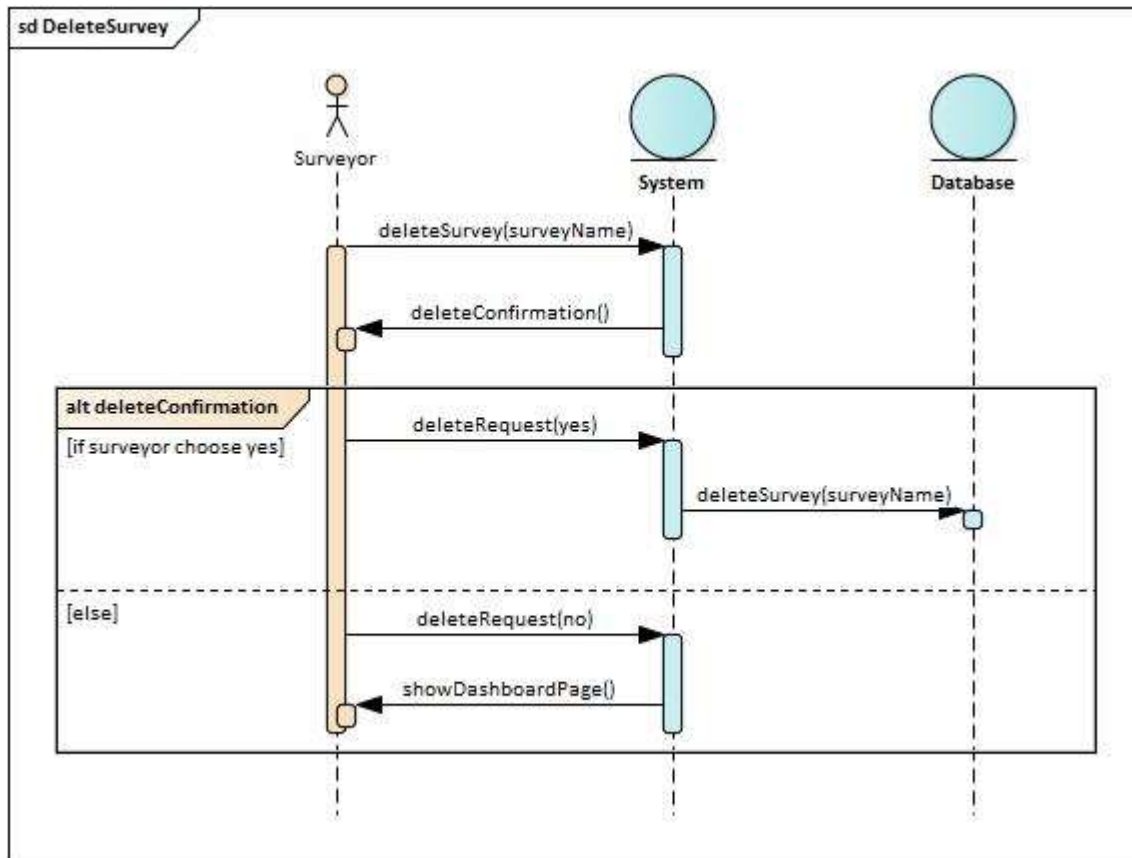
E. Edit Survey



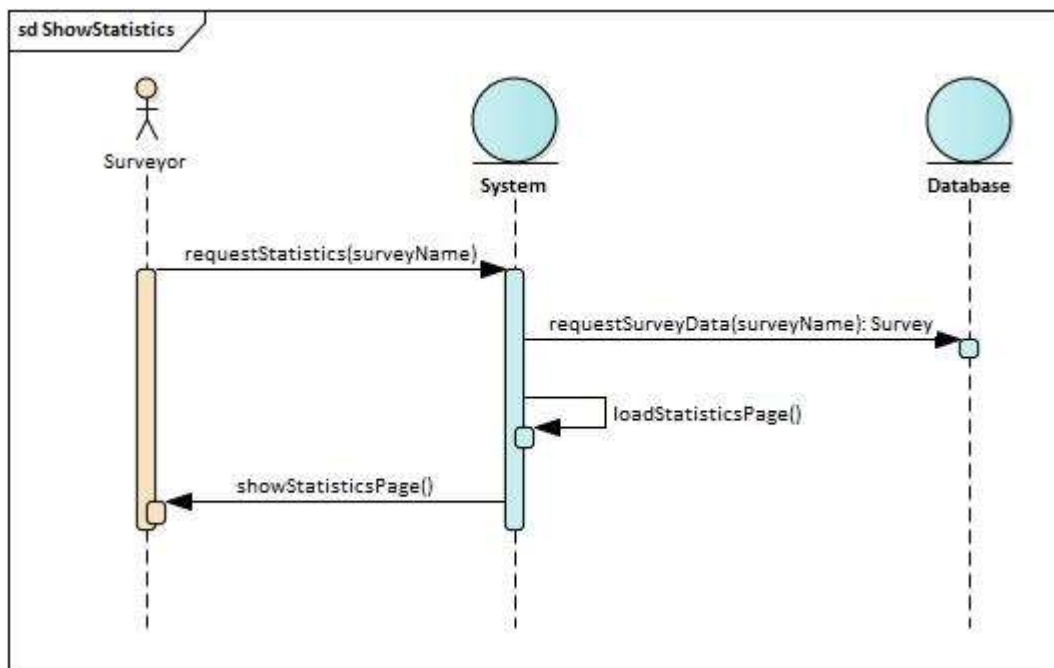
F. Publish Survey



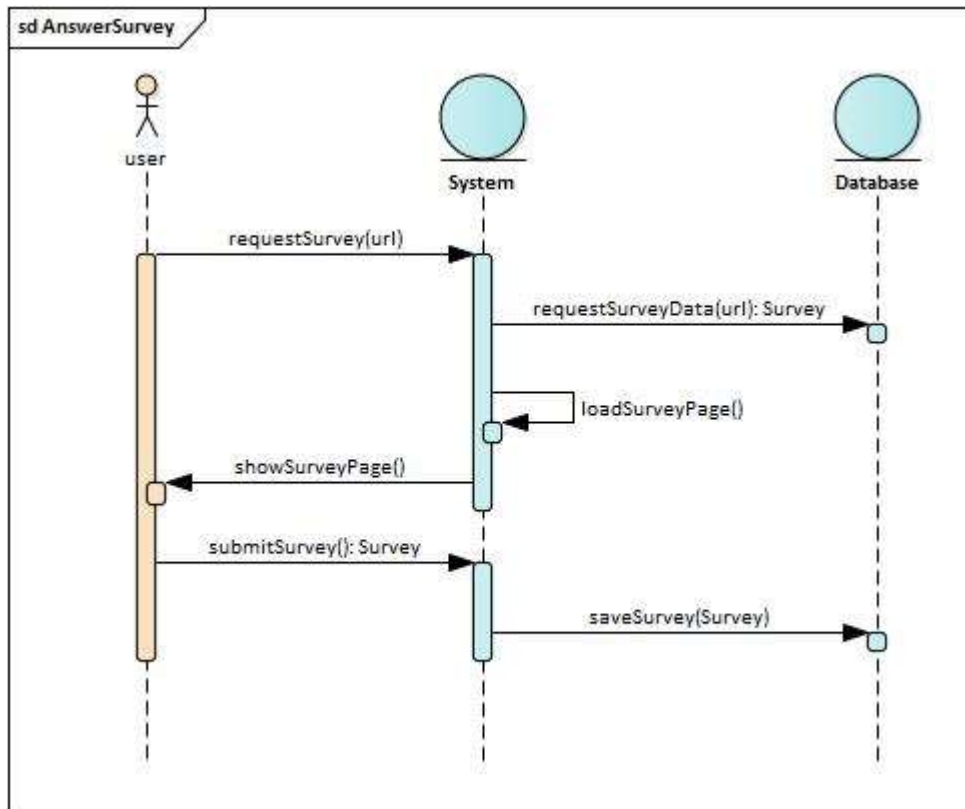
G. Delete Survey



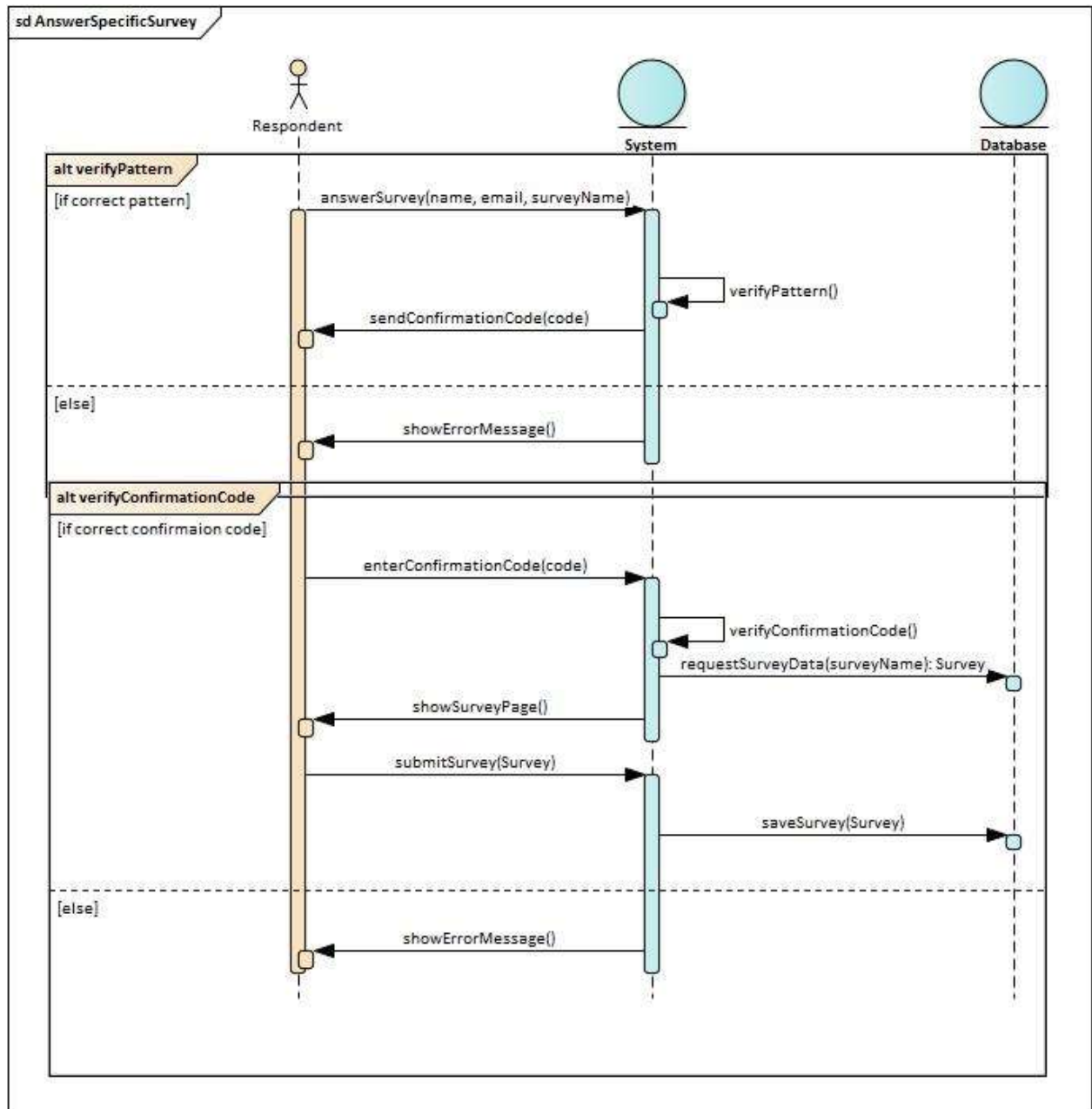
H. Show Statistics



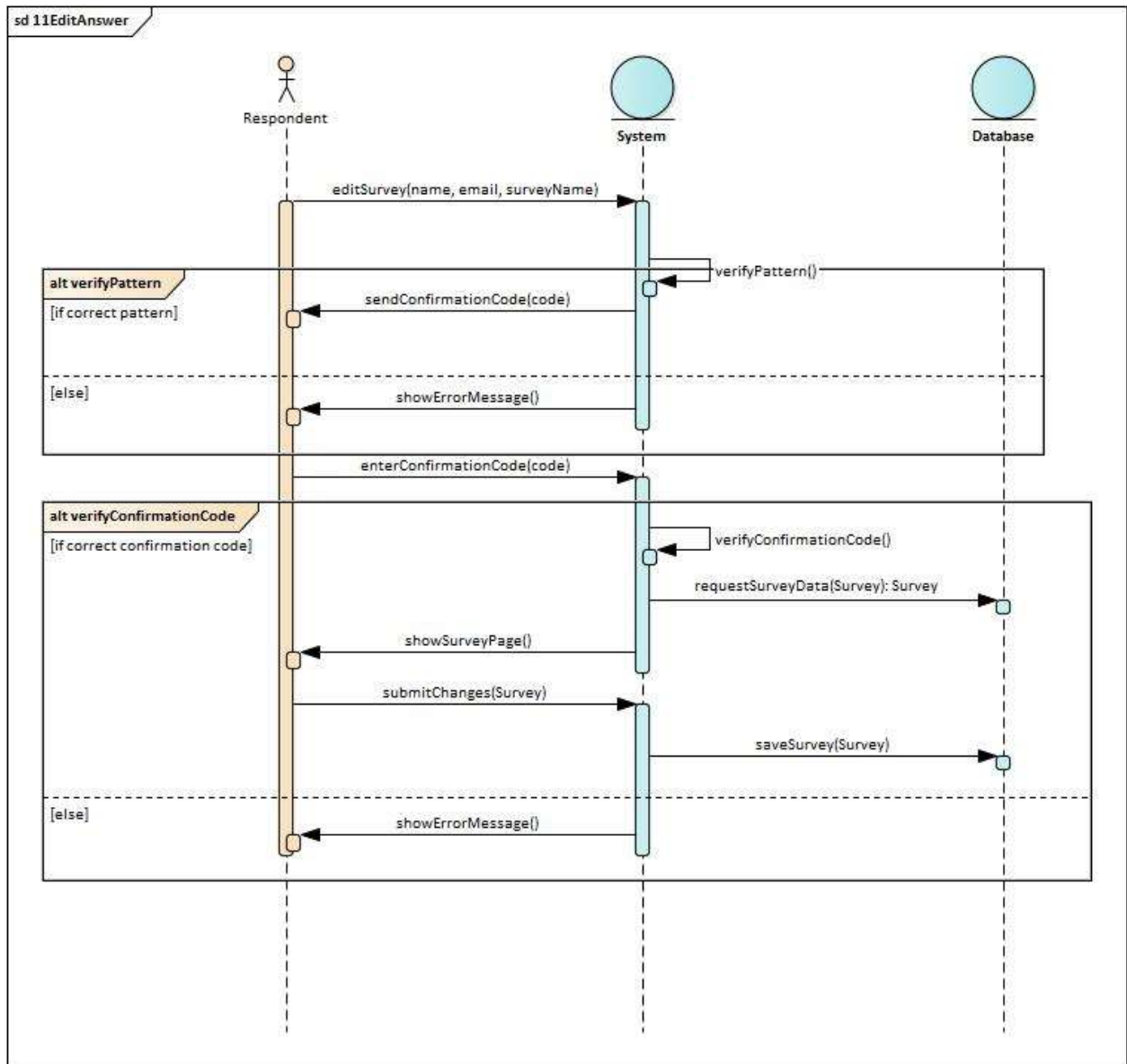
I. Answer Survey



J. Answer Specific survey



K. Edit Answer



X. Wireframes

First Page index.html

Logo	Navigation Bar
<div><div>Create Survey</div><div>Sign In</div><div>Sign Up</div></div> <div>Answer Survey</div> <div>Answer Survey</div>	

SignUp.html page

Logo	Navigation Bar
<div><div>First Name</div><div>Second Name</div><div>Email</div><div>Confirm Email</div><div>Password</div><div>Confirm Password</div><div>Submit</div></div>	

SignIn.html page

Logo	Navigation Bar
------	----------------

Username/Email

Password

[Forget Your Password?](#)

Confirmation.html page

Logo	Navigation Bar
------	----------------

Enter the Confirmatoin Code:

--	--	--	--	--	--

This page is used for the signup confirmation for surveyor and answer survey confirmation for respondent

AnswerSurvey.html page

Logo	Username	Navigation Bar
<div><div><div>Name</div><div>Email</div><div>Survey ID</div></div><div><div></div><div></div><div></div></div><div>Next</div></div>		

Dashboard.html page

Logo	Username	Navigation Bar
<div>Create Survey</div> <div><div><div>Survey 1</div><div>Date: mm/dd/yyyy</div><div>Description: _ _ _ _</div></div><div><div></div><div></div><div></div></div></div> <div><div><div>Survey 2</div><div>Date: mm/dd/yyyy</div><div>Description: _ _ _ _</div></div><div><div></div><div></div><div></div></div></div> <div><div><div>Survey 3</div><div>Date: mm/dd/yyyy</div></div><div><div></div><div></div></div></div>		

show statistics

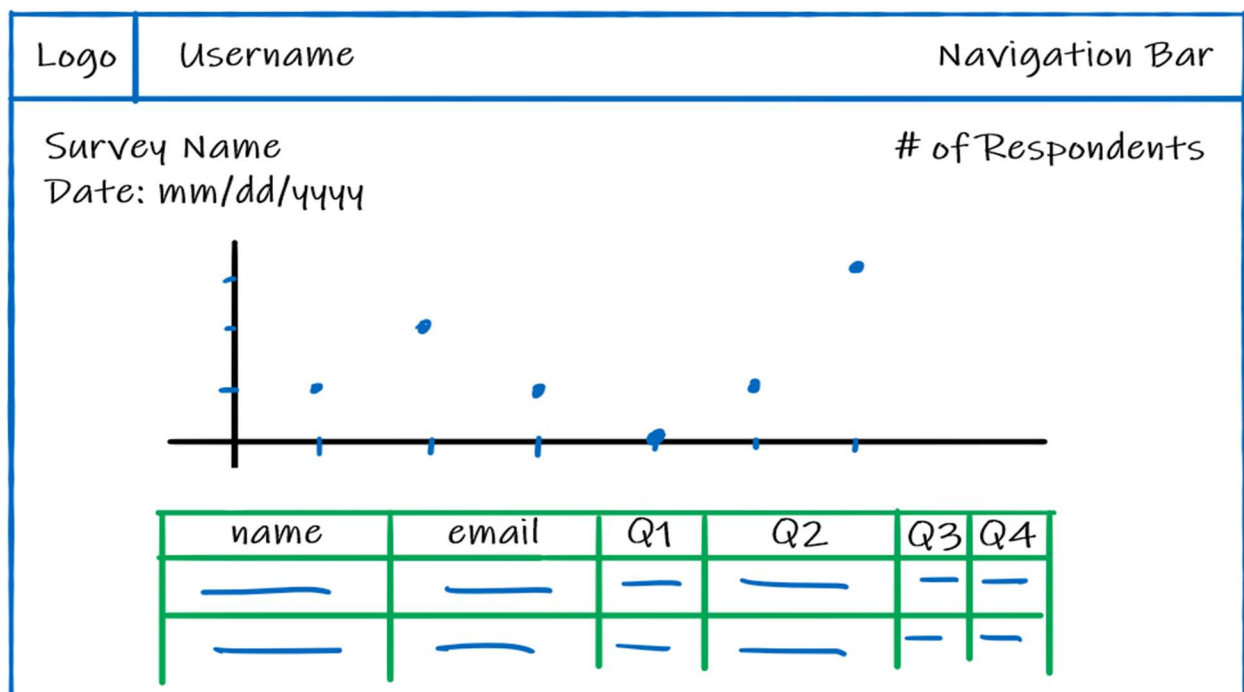
Edit Survey

Edit Survey

CreateSurvey.html and EditSurvey.html page

Logo	Username	Navigation Bar
<p>Survey Name: <input style="width: 150px;" type="text"/></p> <p>Description: <div style="border: 1px solid green; height: 50px; width: 250px;"></div></p>		
<p>Specific Group <input style="width: 20px; height: 15px;" type="checkbox"/> → check box</p>		
<div style="border: 1px solid blue; padding: 5px; margin-bottom: 10px;"> <p>Question 1: <input style="width: 180px;" type="text"/></p> <p><input type="radio"/> <input style="width: 80px;" type="text"/></p> <p><input type="radio"/> <input style="width: 80px;" type="text"/></p> <p style="text-align: center;">⊕</p> </div> <p style="text-align: center;">⊕ MCQ ></p>		

Statistics.html page



Survey.html page

Logo	Username	Navigation Bar
<div>Question 1: <input type="text"/> <input type="text"/> <input type="text"/></div> <div><input type="radio"/> <input type="text"/></div> <div><input type="radio"/> <input type="text"/></div>		
<div>Question 2: <input type="text"/> <input type="text"/> <input type="text"/></div> <div><input type="text"/></div>		
<div>submit</div>		