

Polling App - Polling App - Software Requirement Specification

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Revision History

Date	Version	Description	Author
4/5/2019	0.1	Created	Dessislava Ashikova

Document Summary

The present Software Requirements Specification (SRS) document contains the software requirements for the implementation of the Polling App.

This document is intended to present a detailed description of the purpose and data details of the Polling App.

Definitions

Term	Definition
SRS	Software Requirements Specification
App	Application

Business Overview

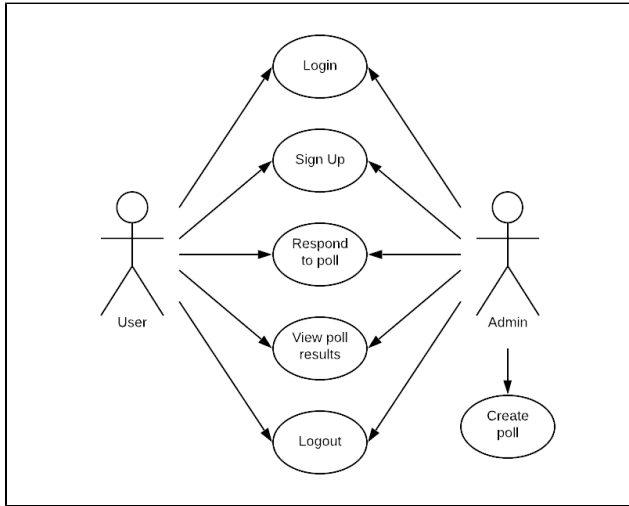
Opinion polls are usually designed to represent the opinions of a population by conducting a series of questions and then extrapolating generalities in ratio or within confidence intervals.

Today polls are largely spread and used to gather opinion on different topics, from political to social, and even personal ones.

The Polling App is intended to provide the ability for creation, response and gathering of statistics on relatively small polls. Its flexibility allows users to easily create a relatively small poll and gather its results.

Functional Requirements

Use Case Diagram



User Authentication

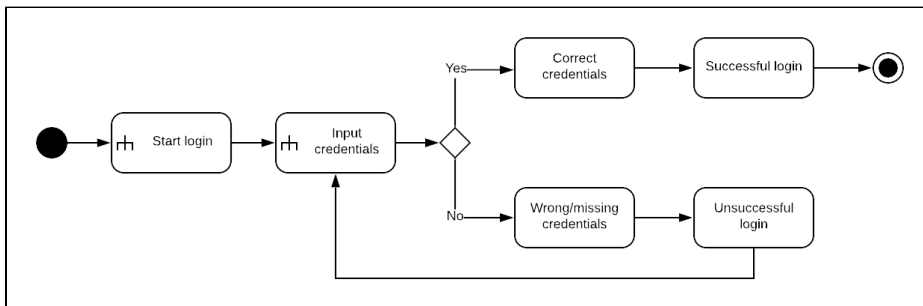
Description

The user authentication is intended to provide user identification when using the Polling App and secure access to the system.

In order for a user to be able to use the application, he/she shall have a username or email and a password through which he/she can be authenticated by the system.

Based on the registration there are two types of users: User and Admin. The User has the ability to participate in polls and review results. The Admin has the ability to create polls, participate and review results.

Activity Diagram



Use Case Description

Use Case ID & Name	UC-1 User Authentication
Description	The process of login of the user providing username or email and password
Application	Polling App
Actors & Permissions	User, Admin
Preconditions	<ol style="list-style-type: none">1. The user can load the application2. The user has registration and granted permissions
Trigger	The user has started the login by clicking on a login button

Main Flow	<ol style="list-style-type: none"> 1. The application's link has loaded 2. The user clicks on the login button 3. The user is redirected to the login page 4. The user inputs correct credentials - username/email and password 5. The user clicks on the Login button 6. The application validates the user's credentials 7. The application validates the user's permissions 8. The user is logged in the application
Exception Flow	<p>3a. The user inputs incorrect credentials - username/email or password</p> <p>3a.1 The user receives a message notifying for incorrect credentials</p> <p>3a.2 The user is not logged into the application</p> <p>3a.3 The user remains on the login page</p> <p>3b. The user misses to input username/email or password</p> <p>3b.1 The user receives a message notifying for incorrect credentials</p> <p>3b.2 The user is not logged into the application</p> <p>3b.3 The user remains on the login page</p>
Post Condition	The user is logged in the application with the appropriate permissions
Assumption	Browser and OS are compatible with the application

Graphical User Interface

Login page

The screenshot shows a web browser window titled "Polling App". The address bar contains "http://poll-app". The main content area has the heading "Polling App (v2.0.0)" in the top left and two buttons, "Login" and "Signup", in the top right. Below the heading, the "Login" section is centered. It includes a label "Username or Email" above a text input field, a label "Password" above another text input field, and a "Login" button below both fields. At the bottom of this section is a blue hyperlink labeled "Register now!".

Logout

Description

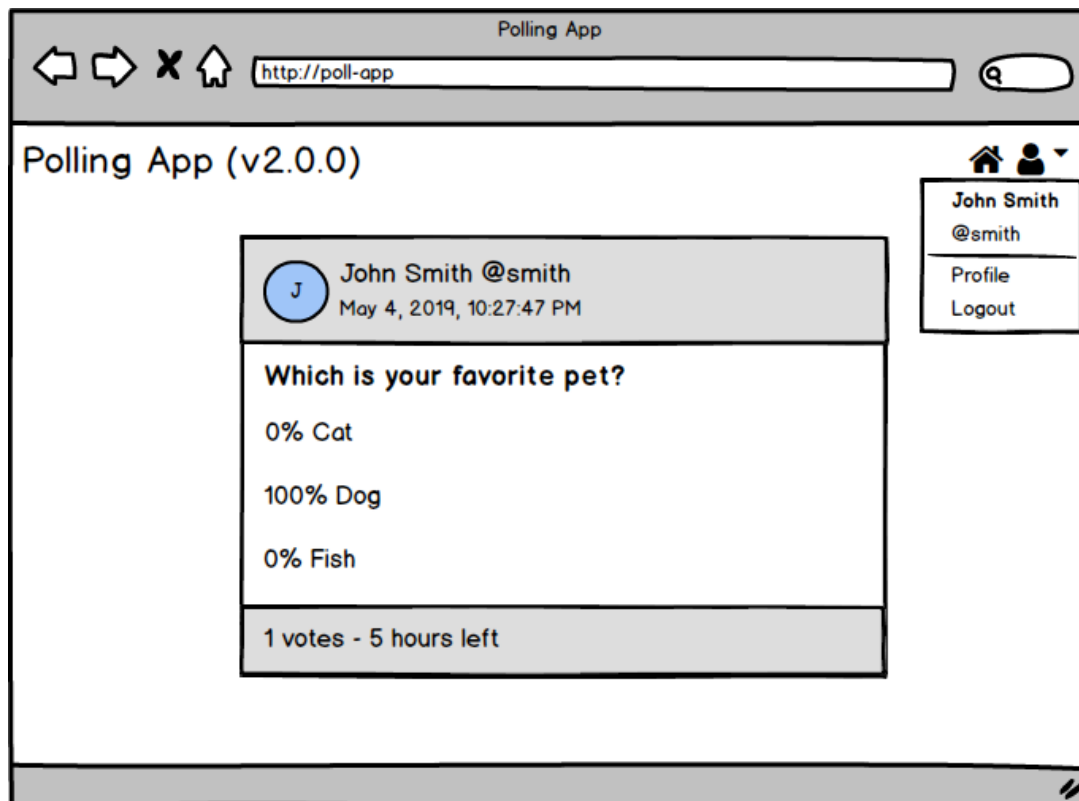
The logout is intended to provide the ability to the user to safely leave the application, saving all changes made to any poll.

Use Case Description

Use Case ID & Name	UC-2 Logout
Description	The process of logout of the application
Application	Polling App
Actors & Permissions	User, Admin
Preconditions	The user is logged into the application
Trigger	The user clicks on the logout button
Main Flow	<ol style="list-style-type: none">1. The user clicks on the profile icon2. The user clicks on the logout button3. The application displays a system message: "Polling App you're successfully log out"4. The user is logged out of the application
Alternative Flow	<p>1a. User's session expires (60 minutes)</p> <p>1a.1 The user is logged out of the application</p>
Post Condition	The user is on the login page
Assumption	Browser and OS are compatible with the application

Graphical User Interface

Logout



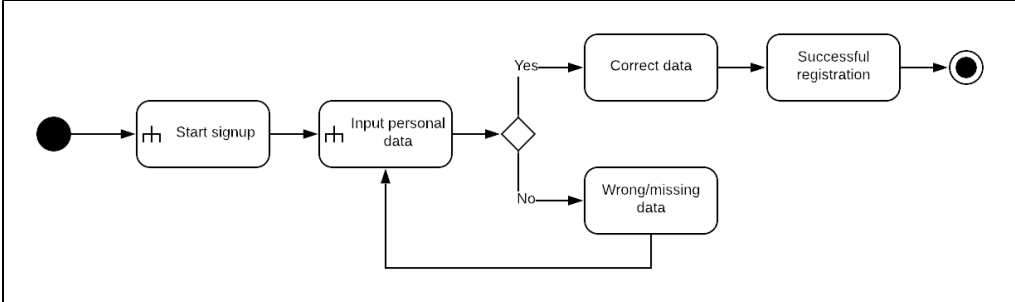
Create Registration

Description

The registration functionality is intended to provide the user with the ability to signup for a profile in the application if he/she has no registration yet.

In order to do that he/she shall provide credentials via a registration form.

Activity Diagram



Use Case Description

Use Case ID & Name	UC-3 Create Registration
Description	Signup for a profile via registration form
Application	Polling App
Actors & Permissions	User, Admin
Preconditions	<div>1. The application is started</div> <div>2. The user is not logged in the application</div> <div>3. The user has no registration in the application</div>
Trigger	The user clicks on the signup button
Main Flow	<div>1. The user clicks on the signup button</div> <div>2. The user fills the registration form with correct data</div> <div>3. The user clicks on the register button</div> <div>4. There is a message for successful registration : "Thank you! You`re successfully registered. Please login to continue."</div>
Exception Flow	<div>2a. The user is notified about any errors in the input fields</div> <div>2a1. The user will lose all of the data if closes the application</div>
Post Conditions	The user is registered into the application and is redirected to login page
Assumption	Browser and OS are compatible with the application

Graphical User Interface

Register

←→X🏠

http://poll-app

🔍

Polling App (v2.0.0)

LoginSignup

Sign Up

Full Name

Username

Email

Password

Register

Already registered? [Login now!](#)

Create Poll

Description

The create poll functionality is available only for users with admin permissions.

This functionality is intended to provide the user the ability to create a new poll and publish it.

Use Case Description

Use Case ID & Name	UC-4 Create Poll
Description	Create a new one question poll with the option to select number of choices and time frame of the poll
Application	Polling App
Actors & Permissions	Admin
Preconditions	<div>1. The user has Admin permissions</div> <div>2. The user is logged in the application</div>
Trigger	The user clicks on the new poll button
Main Flow	<div>1. The user fills the mandatory data for the new poll</div> <div>2. The user clicks on the create poll button</div> <div>3. Successful Creation Message "Your poll has been created successfully" appears</div>
Post Conditions	New poll is created
Assumption	Browser and OS are compatible with the application

Graphical User Interface

Create Poll

Polling App
http://poll-app

Polling App (v2.0.0)

Create Poll

Enter your question

Choice 1

Choice 2

+ Add a choice

Poll length: 1 Days 0 Hours

Create Poll

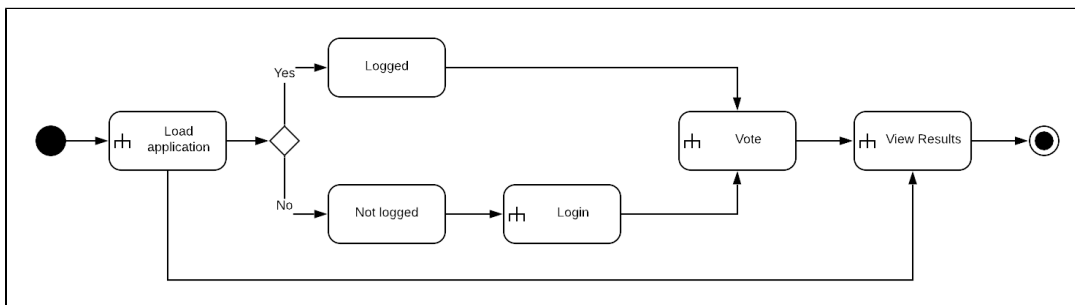
Vote & Review Results

Description

The vote functionality provides the user the ability to vote for an active poll. The user must be logged in in order to be able to vote. The user can vote only once for each poll by selecting only one option.

The Review Results functionality provides the user the ability to review different polls and the results of them. This functionality is available regardless of whether the user is logged or not.

Activity Diagram



Use Case Description

Use Case ID & Name	UC-5 Vote & Review Results
Description	Vote on an open poll; review poll results regardless of whether you are logged or not
Application	Polling App
Actors & Permissions	User, Admin

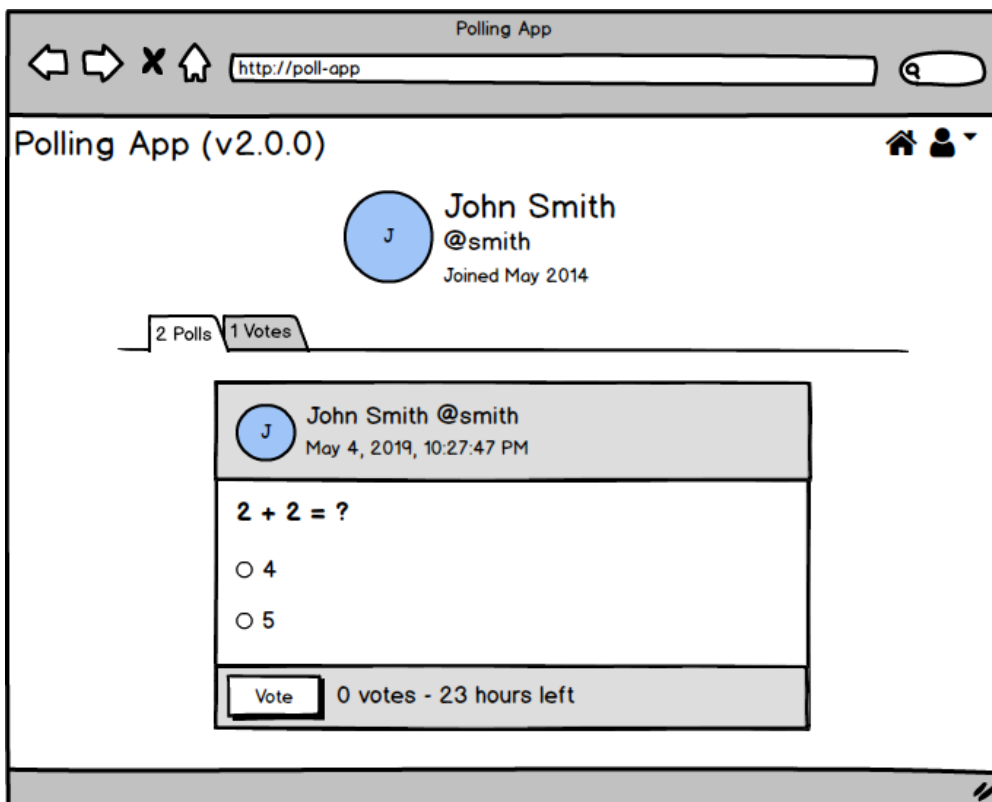
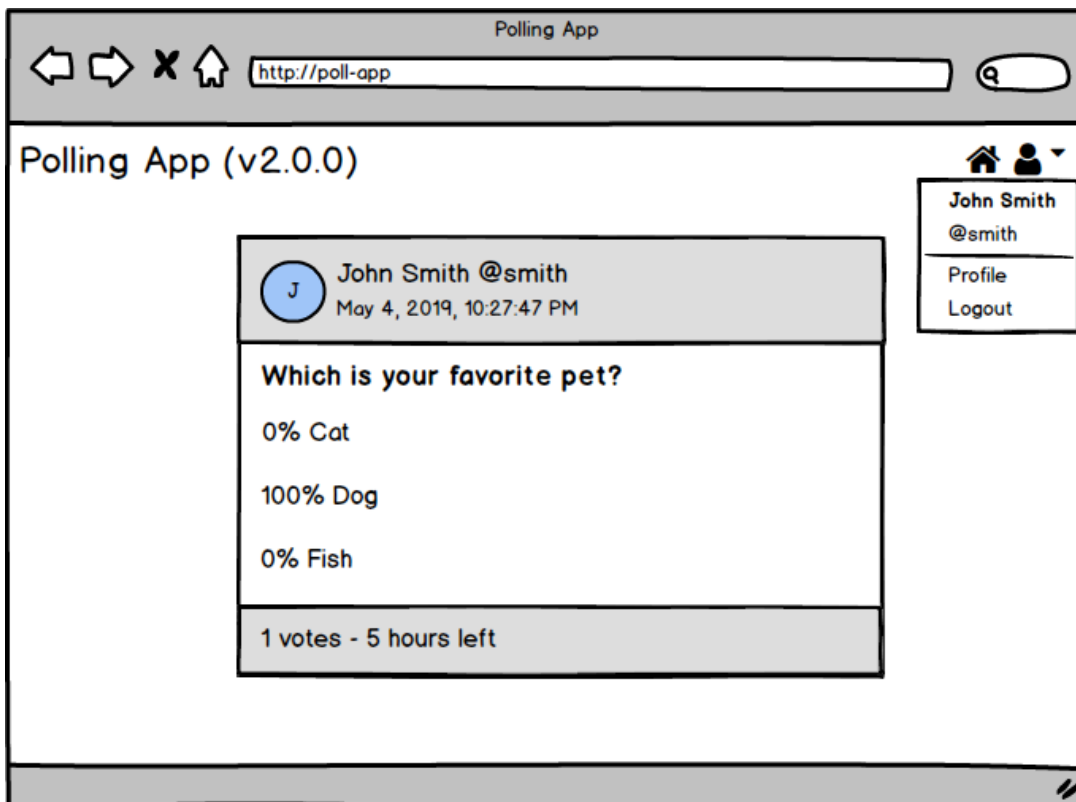
Preconditions	<ol style="list-style-type: none"> 1. The application is loaded 2. There is an open poll for voting
Trigger	The user starts the application
Main Flow	<ol style="list-style-type: none"> 1. The results review page is loaded 2. The user logs in the application 3. The user selects a choice and votes for that choice in the poll 4. The user reviews the poll results
Exception Flow	<ol style="list-style-type: none"> 1a. The user selects a choice and votes for that choice in the poll 1a.1 The user is redirected to the login page
Post Conditions	The user is not able to vote second time for the same poll
Assumption	Browser and OS are compatible with the application

Graphical User Interface

Vote

The screenshot shows a web browser window titled "Polling App". The address bar shows "http://poll-app". The page header says "Polling App (v2.0.0)" with a home icon and a user profile icon. The main content area displays a poll by "John Smith @smith" dated "May 4, 2019, 10:27:47 PM". The poll question is "2 + 2 = ?" with two radio button options: "4" and "5". At the bottom of the poll box, there is a "Vote" button and text indicating "0 votes - 23 hours left".

Review Results



Data Dictionary

Attribute Name	Format	State	Mandatory	Description	Screen	Use Case
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Username / Email	Text Input	Enabled	Yes		Login	UC-1 User Authentication
Password	Text Input	Enabled	Yes		Login	UC-1 User Authentication
Login	Button	Enabled	n/a	The user shall be able to login only after all mandatory fields are filled	Login	UC-1 User Authentication
Full Name	Text Input	Enabled	Yes	The field shall accept minimum of 4 and maximum of 40 characters	Signup	UC-3 Create Registration
Username	Text Input	Enabled	Yes	The field shall accept minimum of 3 and maximum of 15 characters	Signup	UC-3 Create Registration
Email	Text Input	Enabled	Yes	The field shall accept maximum of 40 characters The field shall be in the format test.test@test.com	Signup	UC-3 Create Registration
Password	Text Input	Enabled	Yes	The field shall accept minimum of 6 and maximum of 20 characters	Signup	UC-3 Create Registration
Register	Button	Enabled	n/a	The user shall be able to register only after all mandatory fields are filled	Signup	UC-3 Create Registration
Enter your question	Text Input	Enabled	Yes	The field shall accept maximum of 140 characters	Create Poll	UC-4 Create Poll
Choice	Text Input	Enabled	Yes	Up to six text input fields. Fields from 3 to 6 can be removed by the user by clicking on the X. It is mandatory to input fields 1 and 2. Fields from 3 to 6 are not mandatory.	Create Poll	UC-4 Create Poll
Add a choice	Button	Enabled	n/a	Shall become disabled in case six fields are added for Choice	Create Poll	UC-4 Create Poll
Poll length days	Drop-Down	Enabled	Yes	Defaulted to 1; shall contain values from 0 to 7.	Create Poll	UC-4 Create Poll
Poll length hours	Drop-Down	Enabled	Yes	Defaulted to 0; shall contain values from 0 to 23.	Create Poll	UC-4 Create Poll
Create Poll	Button	Enabled	n/a	The user(admin) shall be able to create a new poll only after all mandatory fields are filled	Create Poll	UC-4 Create Poll

Non-functional requirements

Compatibility

The table below depicts the platform / browser version compatibility of the application:

Platform / Browser	Browser Version
Windows OS / Chrome	Latest
Windows OS / Firefox	Latest
Android OS / Chrome	Latest
iOS / Chrome	Latest

Performance

The application must be able to support up to 100 users, below 1.5 sec response time for each system operation regardless of its type.

Reference to API specs: [here](#).