# QA Fundamentals and Manual Testing Retake Exam



# Part I – SnapRecap Web Application

You are provided with an web application, **SnapRecap**, along with a specification of the requirements. The primary objective of the exam is to ensure the App functions as expected **according to the provided use cases**. This involves **creating test cases for each of the** [**USE CASES**](#_Functional_Requirements). It also includes the **detection and detailed documentation of any identified bugs**. You have to document all your work in the provided **Test Management and Bug Tracker Template**.

## Software Requirements

### 1. Introduction

#### 1.1. Purpose

The objective of this document is to provide a description of the **SnapRecap** application (also referred to as **SnapRecap** or **The App**). It will present an overview of the key functionalities.

#### 1.2. Scope

This document includes high-level description of the **basic functionalities of SnapRecap**, such as user registration, login, profile editing, recap creation and management. It does not cover any special user (Administrator) functionalities.

### 2. Overall Description

#### 2.1. System environment

The App hosts two primary actors: **unregistered/non-logged** users and **registered/logged users**. Both can access their respective parts of the application via the internet on the following url:

[**http://snaprecap-env.eba-cafzhs9x.eu-north-1.elasticbeanstalk.com/**](http://snaprecap-env.eba-cafzhs9x.eu-north-1.elasticbeanstalk.com/)

#### 2.2. Key Features

**Unregistered/non-logged users** have access only to the Home page of The App, with the option to either **REGISTER** or **LOGIN**. On the other hand, **registered/logged users** have access to the **main functionalities**, including **Profile editing**, **Recap creation**, and **Recap management**.

##### 2.2.1. Home Page for unregistered / non-logged users

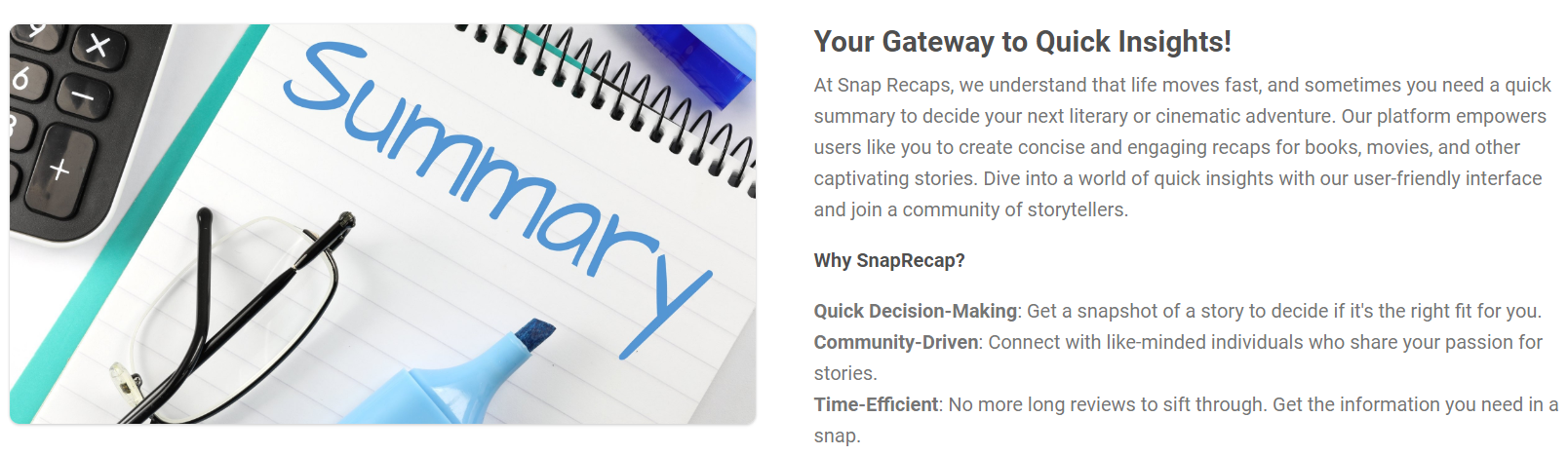
The **Home Page** is the main gateway into The App. It contains a **navigation bar** (also referred to as **Navbar**) **on top**, with **Home, About and Services** buttons on the left and **REGISTER** and **LOGIN buttons** on the right. The Home page of the App is designed with a scrollable layout. **Each of the buttons on the Navbar**, upon clicking **scrolls** the page to its **corresponding section**.

Upon loading, users will be presented with an image and below this initial image, the page is divided into **sections**, each serving a **specific purpose**.

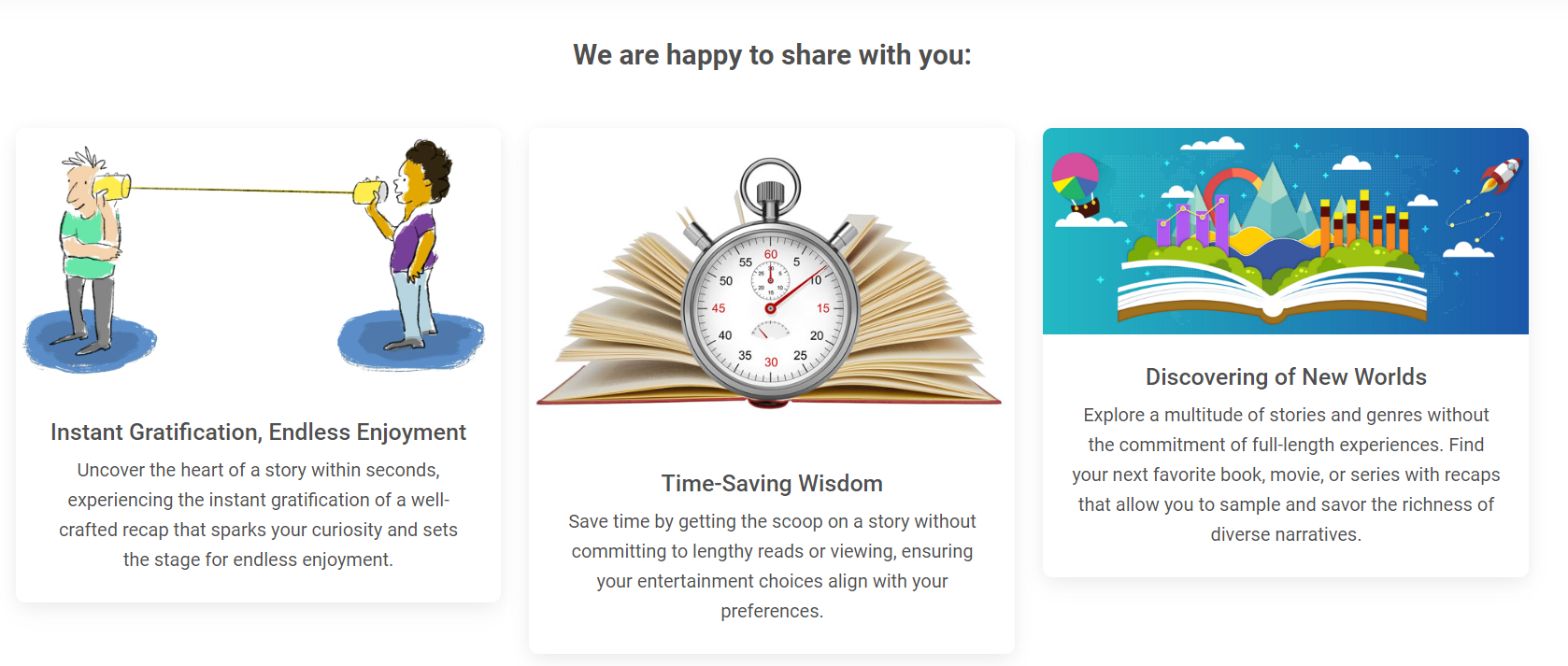


**Below, the initial image the first section is titled: Your Gateway to Quick Insights!**

This section includes a picture and a short description of what one might expect from the App.

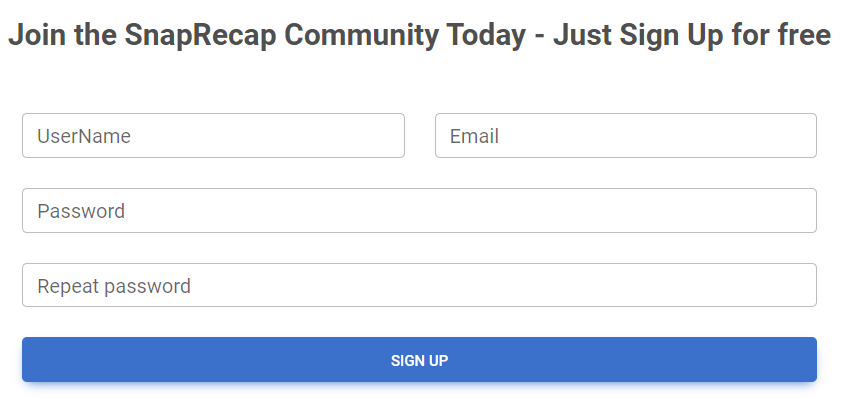


**The second section: We are happy to share with you:**This section features three images, each accompanied by corresponding text, encouraging users to explore their creative potential within the realm of recaps: **"Instant Gratification, Endless Enjoyment"**, "**Time-Saving Wisdom"**, and **"Discovering of New Worlds".** This section can be reached via scrolling or by clicking on **SERVICES button** on the Navbar.



**Section three: Join the SnapRecap Community Today - Just Sign Up for Free**

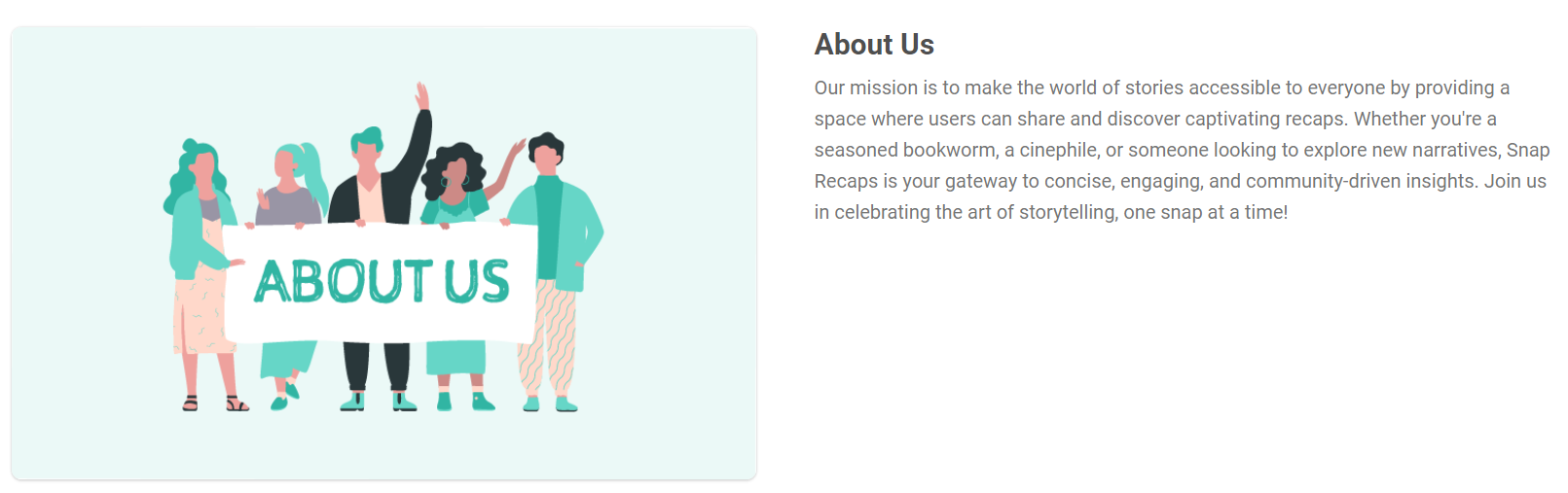
This section prompts users to become part of the SnapRecap community through a simple sign-up process. The form includes fields for the user's **username**, **email**, **password**, and **repeat password**, along with **SIGN UP** button. The form can be reached via scrolling or by clicking on **REGISTER button** on the Navbar.



**Section four: About Us**

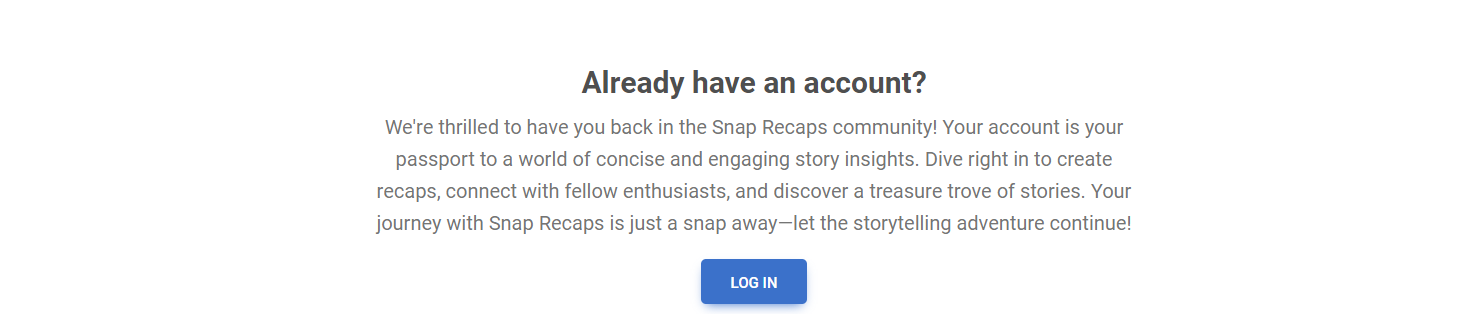
Holding information about the purpose and the idea behind creating the App.

This section can be reached via scrolling or by clicking on **About button** on the Navbar.



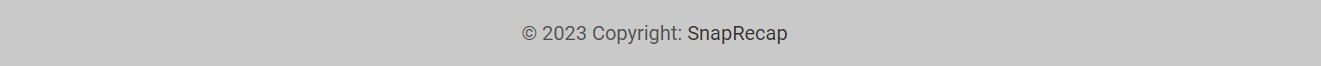
**Section five: Already Have an Account?**

Welcoming returning users, this section features a **LOG IN button**, which leads to the **Log in page**.

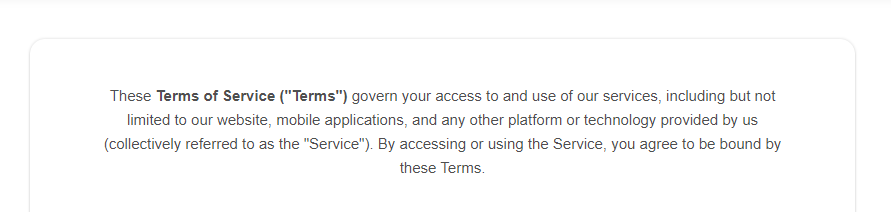


**Footer: Copyright Information**

The footer of the home page bears the copyright notice: "© 2023 Copyright: SnapRecap," indicating the ownership and protection of intellectual property.



**SnapRecap part of the text is clickable** and it leads to **Terms of Service page**.



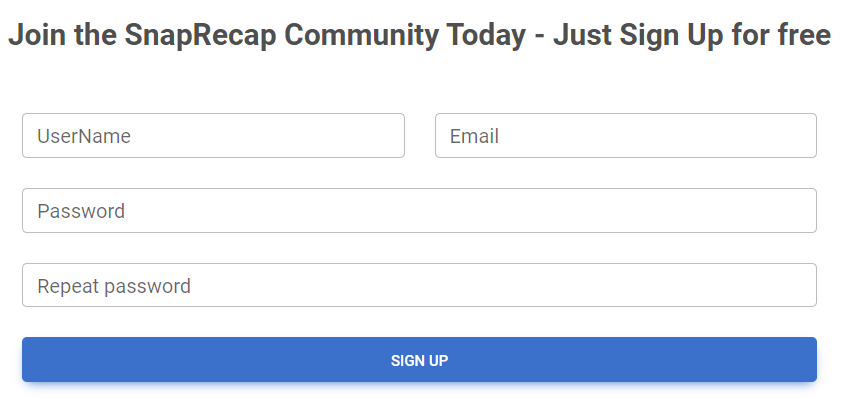
##### 2.2.2. Sign Up Form

**The Sign Up Form** is accessed by scrolling down the Home page or by clicking **REGISTER button** on the Navbar. It contains form fields for entering a **Username**, **Email**, **Password**, and **Repeat password**. The form also includes a **Sign Up button to submit the form**. The acceptable requirements for each field are specified as follows:  
**Username:** A 2-30 character field, accepting all character types.

**Email:** Requires a valid email, 6-254 characters long.

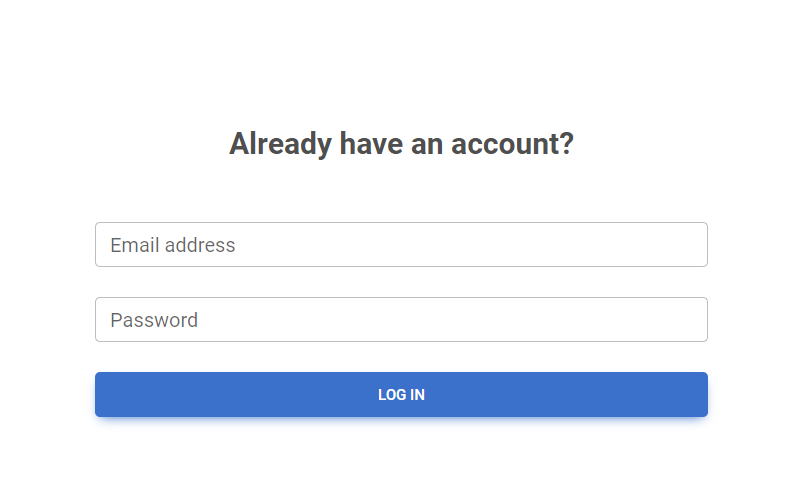
**Password:** Any characters are acceptable, with a length of 6-30 characters

**Repeat Password:** Must match password



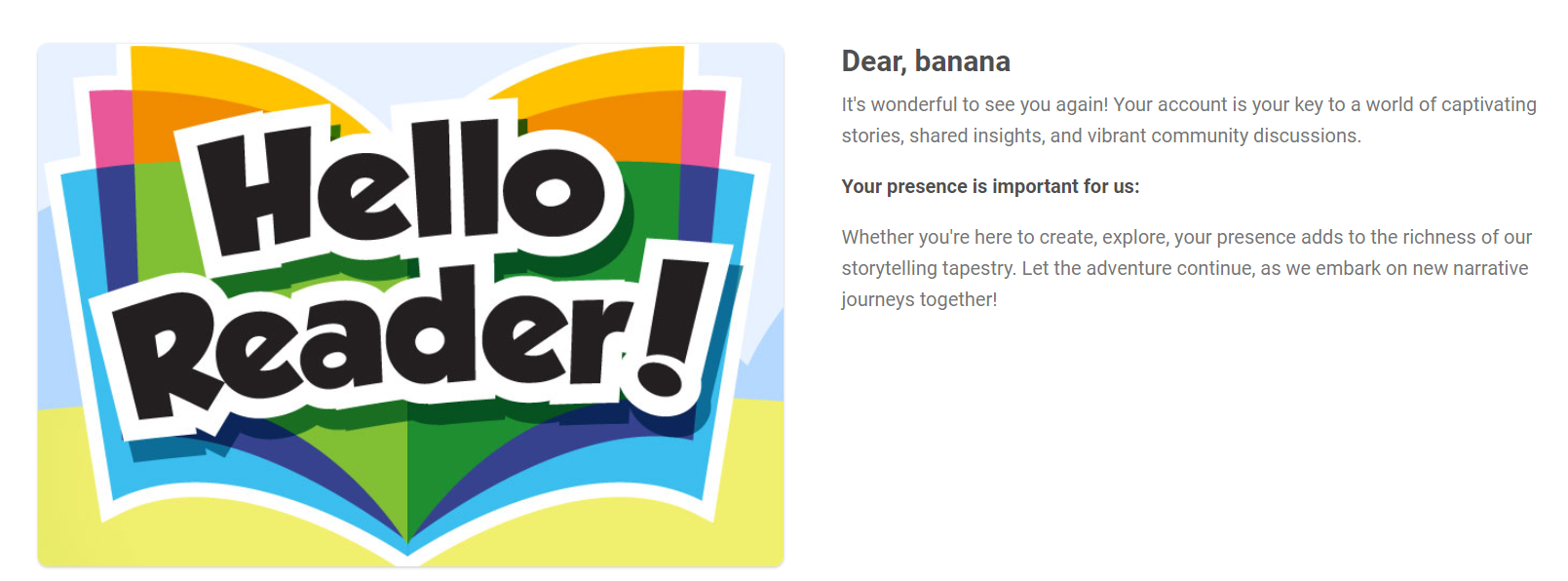
##### 2.2.3. Log In Page

The **Log In page** can be reached **from the Navbar LOGIN button** or by scrolling down the Home page to section five: Already Have an Account? After filling the correct email and password, click LOG IN button.



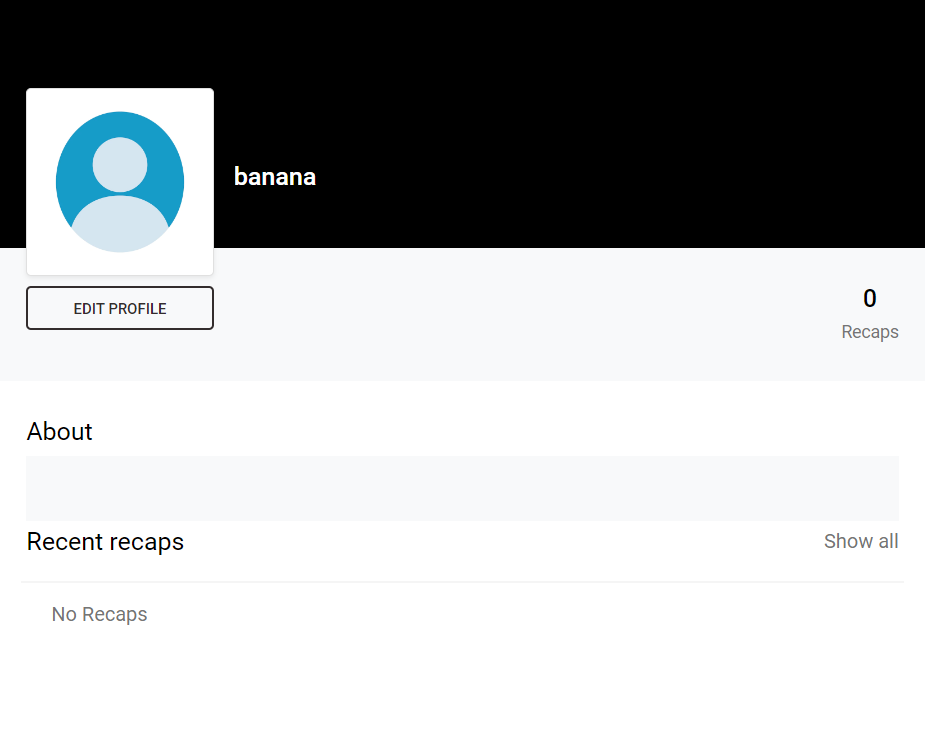
##### 2.2.4. Home Page for logged users

Once a user is **logged in**, they are directed to a different version of the **Home page**. The page includes a **Navbar on top**, with links to **MY RECAPS** and **CREATE RECAP** on the left, and **PROFILE** and **LOGOUT buttons** on the right. The page again is scrollable. The initial image is the same and below the image "**Dear, {username} It's wonderful to see you again! Your account is your key to the world of captivating…"** message is showing.



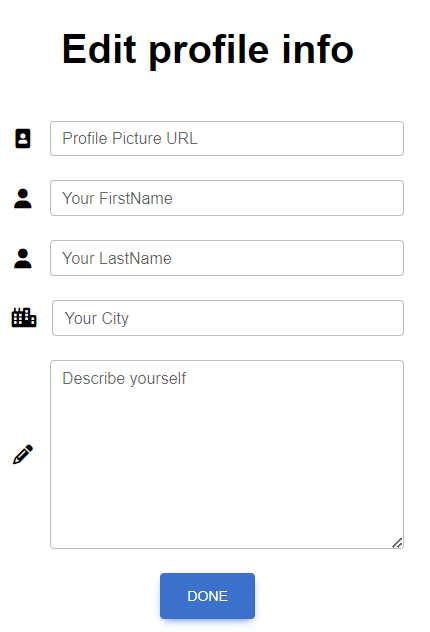
##### 2.2.5. Profile Page

This page is accessible for logged users **from the Navbar, top-right PROFILE button**. It includes a **default empty profile picture**, an **EDIT PROFILE button**, **an empty About section by default**, and **a counter of the user's recaps**, which is initially set to 0. If no recaps have been created yet, the **Recent recaps section shows** a **No recaps** message. There is also a **Show all link** which leads to **My Recaps page**.



##### 2.2.6. Edit Profile Info Page

Accessible from **EDIT PROFILE button on Profile page**, this page allows **users to** **edit their profile information**, including **Profile picture** (picture is not uploaded, but must be a **valid URL of a picture,** for example http://......jpg), **First name** (max 60 characters length), **Last name** (max. 60 characters length), **City** (max. 120 characters length), and a **Describe yourself** section (max. 256 characters length).

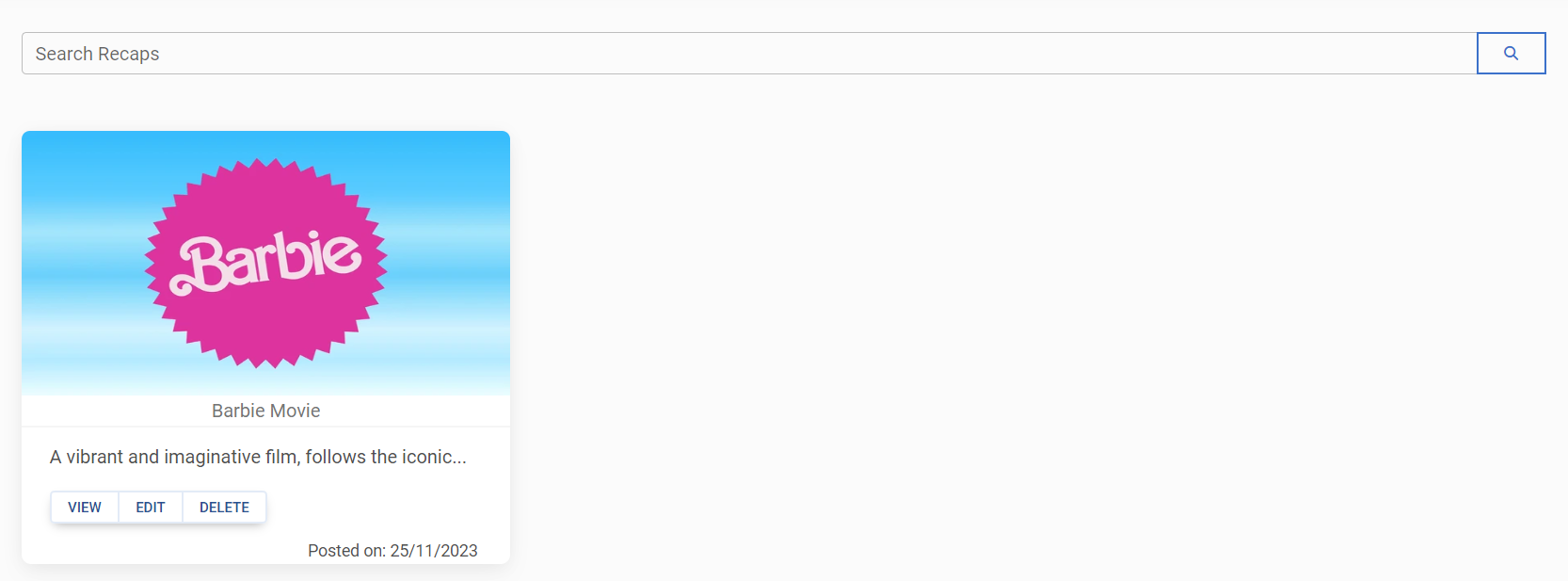


Upon clicking on **DONE button**, it redirects to My Profile page, where the newly provided information is visible.

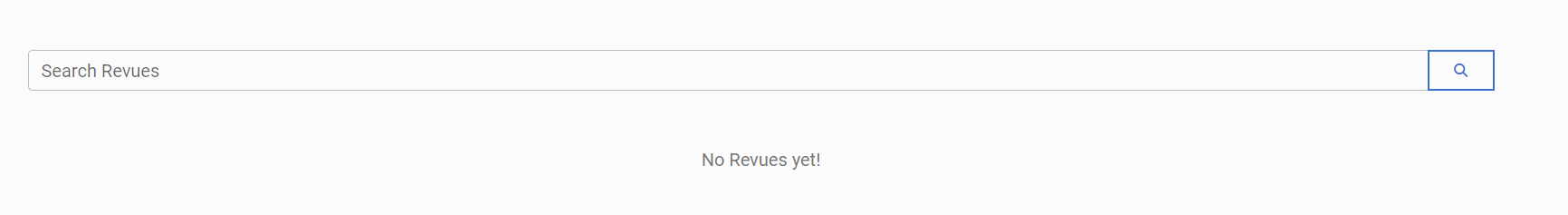
##### 2.2.7. My Recaps Page

This page is accessible **from the Navbar** and contains a **Search recaps field** and a **SEARCH button**. If no recaps have been created yet, a **No recaps yet!** message is displayed.

Upon **Creating a recap**, it appears on the **My Recaps page** where the user can **VIEW, EDIT, or DELETE** it.

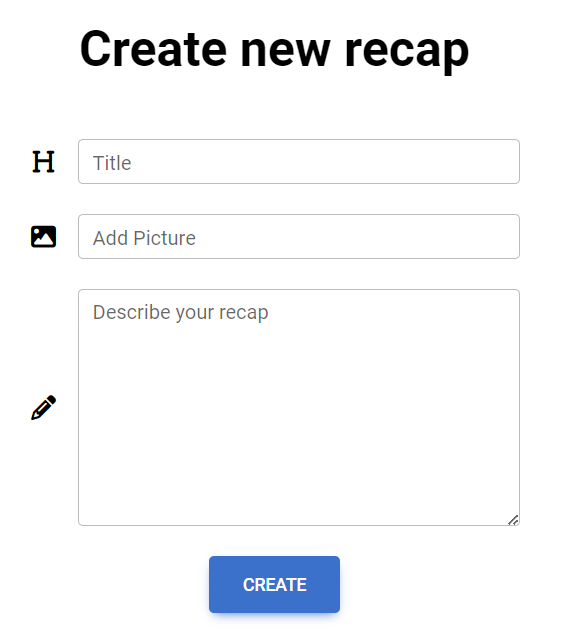


Users can **enter keywords from the title of a recap and click the Search button** to initiate the search. The search functionality then filters the list of recaps based on their titles.



##### 2.2.8. Create Recap Page

This page is accessible from the **Create Recap link on the Navbar** and contains the following: **Title** field (max. 70 characters length), **Add a picture** field (picture is not uploaded, but must be a valid URL of a picture, for example http://......jpg), **Describe your recap** field (max. 400 characters length), and **CREATE button**.



Upon **creating a Recap**, it redirects to **My Recaps page**, where the new **added Recap is present** with buttons for **VIEW, EDIT, and DELETE**

##### 2.2.8. Recap Management

Recap Functionalities are **available from the My Recaps page**. Each created Recap has its own **VIEW, EDIT and DELETE buttons**.



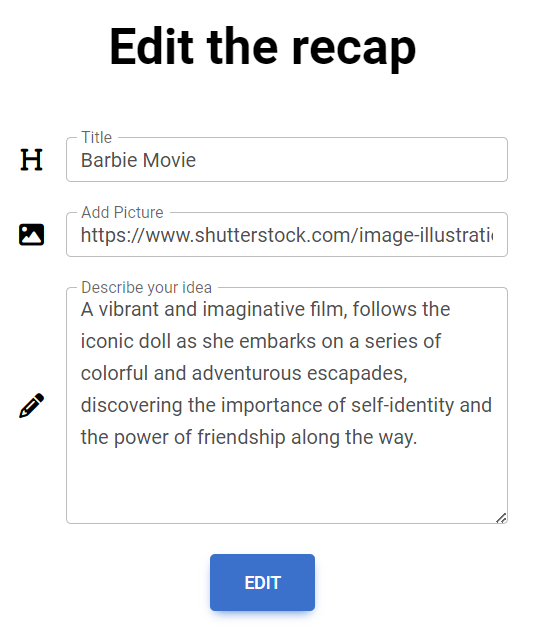
##### а. VIEW

Available after clicking on **VIEW button**. The user should be able to VIEW the recap and also EDIT and DELETE it, through the small blue buttons on the bottom right.



##### b. EDIT

Available after clicking on **EDIT button**.



##### c. DELETE

After clicking on **DELETE button**, the Recap is deleted and it disappers from My Recaps page.

## Functional Requirements

### 1. Use Case 1 (Home Page)

Users should be able to access The SnapRecap App from its designated URL via the Internet, which should load the Home page, appropriate to the user's logged-in status (unregistered/non-logged or registered/logged).

### 2. Use Case 2 (User Registration)

Unregistered users should be able to successfully go through the Sign Up process. This involves the utilization of fields such as Username, Email, Password and Repeat Password, all subject to their respective constraints and character type acceptance.

### 3. Use Case 3 (User Login)

Registered users should be able to successfully go through the Log In process. They should be able to log in using Email and Password.

### 4. Use Case 4 (Profile Management)

Upon successful Log In, logged users should be able to navigate to their Profile page, edit their profile details, and view their Recaps count. This involves the changing of profile picture inserted via URL, and editing of user data fields including First Name, Last Name, City and Describe yourself sections.

### 5. Use Case 5 (Recap Creation)

Logged users should be able to navigate to the Create Recap page, where they can create a new Recap with a Title, Picture (URL), and a Description. After the Recap creation process, users should be redirected to My Recaps page, where the newly created Recap should be present.

### 6. Use Case 6 (Recap Management)

On My Recaps page, logged users should see all their recaps listed. Each recap should have options for View, Edit, and Delete. If no recaps have been created yet, a "No recaps Yet!" message should be displayed. Users also should have the option to search for recaps, based on key words from the recap's title.

## Recap Web App Tasks

### **1. Test Cases**

You need to write **test cases** **for each of the 6 Use cases**.  
**Each Use case** should have at **least 2 Test Cases**.

You should write **at least 15 test cases**.

### 2. Bug Reports

You should find and describe at least **5** bugs.

**2 of the bugs** should have **high priority** OR **blocking/critical severity**.

### 3. Template Use the provided Test-Management-and-Bug-Tracking-Template.xlsx to document your work.

# Part II – SnapRecap API

This section provides information about the **SnapRecap API endpoints** and their functionalities. It serves as a guide to understand how to interact with the SnapRecap API. This is the base URL:

[**http://snaprecap-env.eba-cafzhs9x.eu-north-1.elasticbeanstalk.com/api**](http://snaprecap-env.eba-cafzhs9x.eu-north-1.elasticbeanstalk.com/api)

The following endpoints are supported:

### 1. User

POST /api/User/Create – create a new user: post a JSON object in the request body, e.g.   
{ "userName": "string", "email": "user@example.com", "password": "string", "rePassword": "string", "acceptedAgreement": true }

* POST /api/User/Authentication - log in an existing user (post a JSON object in the request body, e.g. { "email": "user@example.com", "password": "string" })

### Access Token

* When a user logs in, the response format is JSON object, e.g.   
  **{**"email": "user@example.com", **"password": "string", "accessToken": "eyJhbGciOiJ…" }**

**NB! Access token is needed for all recap requests. It should be placed under the Authorization tab, Bearer Token option.**

### 2. Recap

All of the **following requests require Authorization**.

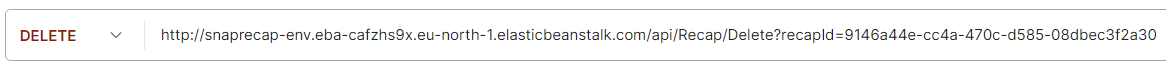
* **GET /api/Recap/All** – list all recaps (empty request body)
* **POST** **/api/Recap/Create**  – create a new recap: post a JSON object in the request body, e.g.   
  **{ "title": "string", "url": "", "description": "string" }**
* PUT /api/Recap/Edit – replace the existing recap with the new one: post a JSON object in the request body, e.g. **{"title": "string", "url": "", "description": "string" };**

**Requires queryParameter: ?recapId={recapId}**

**HINT:** 

* DELETE **/api/Recap/Delete** – delete existing recap;   
  **Requires queryParameter: ?recapId={recapId}**

**HINT:**



## SnapRecap API Tasks: Postman Requests

Your task is to write **API requests** with Postman for certain RESTful API endpoints.  **You should organize your requests in a collection.**

### **1. Log in to the API**

**Send a POST request with your email and password**, that you previously created from the SnapRecap Web App. If properly executed, you will receive your access token as a part of the response body. Use it as a Bearer Token in the Authorization section for the next requests.

### 2. Create a new recap

**Send a POST request with the attributes needed for creating a new recap**

Keep in mind that the full attributes in the JSON body are as follows:

**{ "title": "string", "url": "http://...jpg", "description": "string" }**

The URL attribute is optional; you may create a recap with just the title and the description. If you choose to include the URL, make sure that it points to a picture format or it can be left blank.

### 3. List all revcaps

**Send a GET request to receive a list of all created recaps**.

This request will return all recaps created through your profile. So, if you created any recaps via the Web App, they also will be listed. In the list of recaps, find the recap that you just created. You will **need its id** for the next request.

### 4. Change the title of the recap you created

**Send a PUT request with the attributes needed to replace the recap you created in task 2. Create a new recap.**

### 5. Delete Recap

**Send a DELETE request with the attributes needed for deleting the recap you just edited.**

# How to submit your work

**1. Create a .zip or .rar archive containing the following:**

- Test-Management-and-Bug-Tracker.xlsx file with your work;

- JSON file containing your collection of requests, created via Postman.

**2. Upload your archive on the SoftUni website, into Retake Exam section.**

**Note: It’s the same as uploading your homework.**