Software Requirements Document

Section 1: INTRODUCTION

1.1 Purpose

This document presents a detailed description of “People’s Budget” system. A website that connects citizens to the country's budget.

The document will explain the purpose and features of the system, its interfaces, what the system will do, the constraints under which it will operate, and how the system will react to external stimuli. This document is intended for system stakeholders as well as system developers.

1.2 Intended Audience

Countries and their citizens would use this system.

1.3 Intended Use

The system will bring an option to vote and influence the country's budget, also reflecting the results of the votes, the partition, and more statistical information.

1.4 Scope

Citizens have little influence over the division of the national budget today, since the link between the budget and the citizens has become looser.

“People’s Budget” offers a convenient service to influence the country’s budget, by enabling direct voting.

Additionally, we aim to create a simple and easy-to-use website for both citizens and establishments.

1.5 Definitions and Acronyms

Database - Collection of all the information monitored by this system.

Government Budget – A document prepared by the government and/or other political entity presenting its anticipated tax revenues (Inheritance tax, income tax, corporation tax, import taxes) and proposed spending/expenditure (Healthcare, Education, Defence, Roads, State Benefit) for the coming financial year.

Establishment – A business organization, public institution, or household.

Citizen - A person who, by place of birth, nationality of one or both parents, or naturalization is granted full rights and responsibilities as a member of a nation or political community.

Stakeholder - Any person with an interest in the project who is not a developer.

People's Budget – The name of the system.

Section 2: OVERALL DESCRIPTION

2.1 User Needs

Product users fall into two categories:

- Establishments who want to able their citizens to influence on the country's budget. The system would allow them to manage the votes and the statistics and display them to their citizens.
- Citizens who want to vote on country's budget and get information and statistics about the budget.

2.2 Assumptions and Dependencies

Our assumption is that both the countries and citizens would like to use the service.

We assume that countries would like to take care to their citizens' welfare and therefore they will enable them to influence on the budget.
We also assume that most of the citizens are not satisfied with their country's budget and will be gald to change it according to their preferences.

If there were not enough establishments will join our service, the citizens will not be able to vote. However, if the country joins our service but most of its citizens do not use the service, the budget will not accurately reflect the people's will.

Section 3: SYSTEM FEATURES AND REQUIREMENTS

Functional Requirements:

- The system must allow registered users to create an account and log in by their ID and password.
- The system must display the current budget proposals for the country.
- The system must allow users to review the details of each budget proposal.
- The system must allow users to vote on each budget proposal.
- The system must record and tally the votes for each budget proposal.
- The system must display the results of the voting for each budget proposal.
- The system will be able to display statistical data and graphs about the votes.
- The system must allow users to submit a feedback.
- The system allow admin user (the establishment) the option to add new projects.
- The system allow admin user (the establishment) the option to edit existing projects.
- The system will distribute the budget to the projects according to the voting data.

External Interface Requirements:

- The system must receive input data from a government database containing the current budget proposals for the country.
- The system must send input data to a government database containing voter registration information, to verify that users are eligible to vote.
- The system must receive input data from users' devices, including votes, comments, and feedback on the budget proposals.
- The system must send output data to a government database containing the results of the voting for each budget proposal.
- The system must send output data to a government website, displaying the results of the voting for each budget proposal to the public.
- The system must be able to receive input data from and send output data to other government systems and databases, as needed for integration and data exchange.
- The system must be able to communicate with external devices, such as smartphones and tablets, using secure and reliable protocols.

System Features:

- User registration and login: The system must allow users to create an account and log in, using secure and reliable authentication methods.
- Budget proposal display: The system must display the current budget proposals for the country, including details such as the title, description, and cost of each proposal.
- Voting: The system must allow users to review the details of each budget proposal and divide the budget according to their will.
- Tallying votes: The system must record and tally the votes for each budget proposal, and display the results to users and stakeholders.
- Feedback and comments: The system must allow users to submit feedback or comments on the budget proposals, and display these comments to other users and stakeholders.
- Notifications: The system must be able to send notifications to users, such as reminders to vote or updates on the results of the voting.
- The system must run on every device with a browser.

Nonfunctional Requirements:

- The system must be available 24/7.
- The system must be able to handle a high volume of traffic during peak voting periods.
- The system must have high uptime and availability.
- The system must be secure, with appropriate measures in place to prevent unauthorized access and protect sensitive data.
- The system must be easy to use, with clear instructions and a user-friendly interface.
- The system must conform to relevant accessibility standards and guidelines, to ensure that it is usable by elderly users and users with disabilities. This includes considerations such as font size, color contrast, and keyboard navigation.
- The system must be scalable, able to handle an increase in users and data over time.

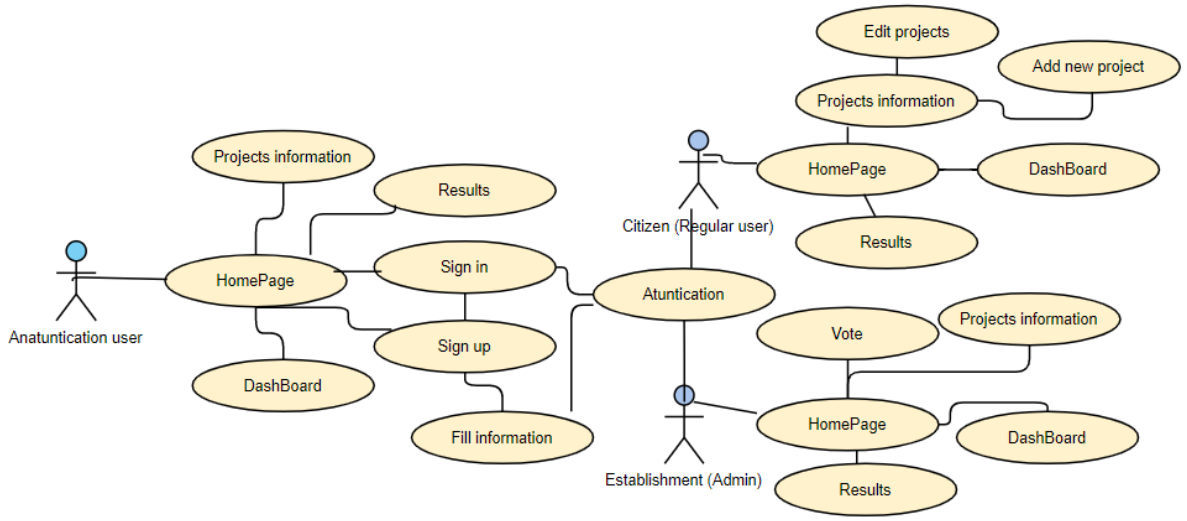
User Stories

User story ID	As a <type of user>	I want to <perform some task>	So that I can <achive some goal>
1	Citizen	be able to vote on the budget	increase my involvement and strengthen the feeling of democracy
2	Citizen	give each office/department a share of the budget according to my preferences	give a higher prioritization and bigger budget to offices/departments that I think need extra budget
3	Establishment (Admin)	give the citizens the opportunity to vote on the budget	make the citizens more satisfied
4	Establishment (Admin)	provide the citizens with a variety of budget statistics	increase the transparency and trust between the establishment to the citizens

Use Cases

1. Any user who enters the site (without registering) will be able to see the results, statistics data and projects information.
2. User that want to vote will have to register to the system by entering his personal information including: first name, last name, ID, and email.
3. After the user is registered in the system, he is allowed to connect to the user created for him.
4. Then he is redirected to the homepage for that user (admin or regular user).
5. Users with administrative access can view statistics, edit information , add new projects and load csv with Artificial voting results.
6. Regular user: Regular users have the option to view statistics data, information about existing projects, and vote on projects and proposals.

Use Cases Diagram



Internal Operations

Sign up: after sign up, the information will be saved in a database.
Sign in: After filling in the user's identification information, the system will retrieve the user's identity data from the database, verify and log in to the system according to the type of user.
Home page: The system will retrieve the username from the database and display it on the screen(An unregistered user will be written as "guest").
Dashboard: The system will retrieve the current voting data from the database and perform calculations intended for statistical results and data updating.
Project information: The system will retrieve from the database the names of the existing offices, the names of the existing projects, and the explanations of the projects and display them on the screen.
Results: Based on the voting data in the database, the system will calculate the budget division via using division algorithms and display the results on the screen.
Regular user:

Vote:
The system will retrieve the project names from the database.
The system will store the user's vote in the database.

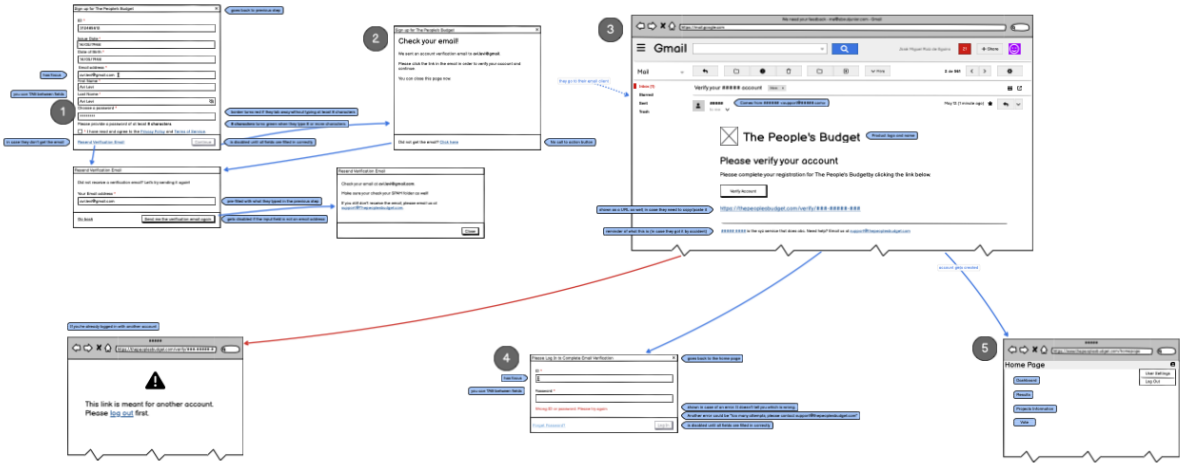
Admin:

Edit Project:
The system will update the update information about that project in the database.

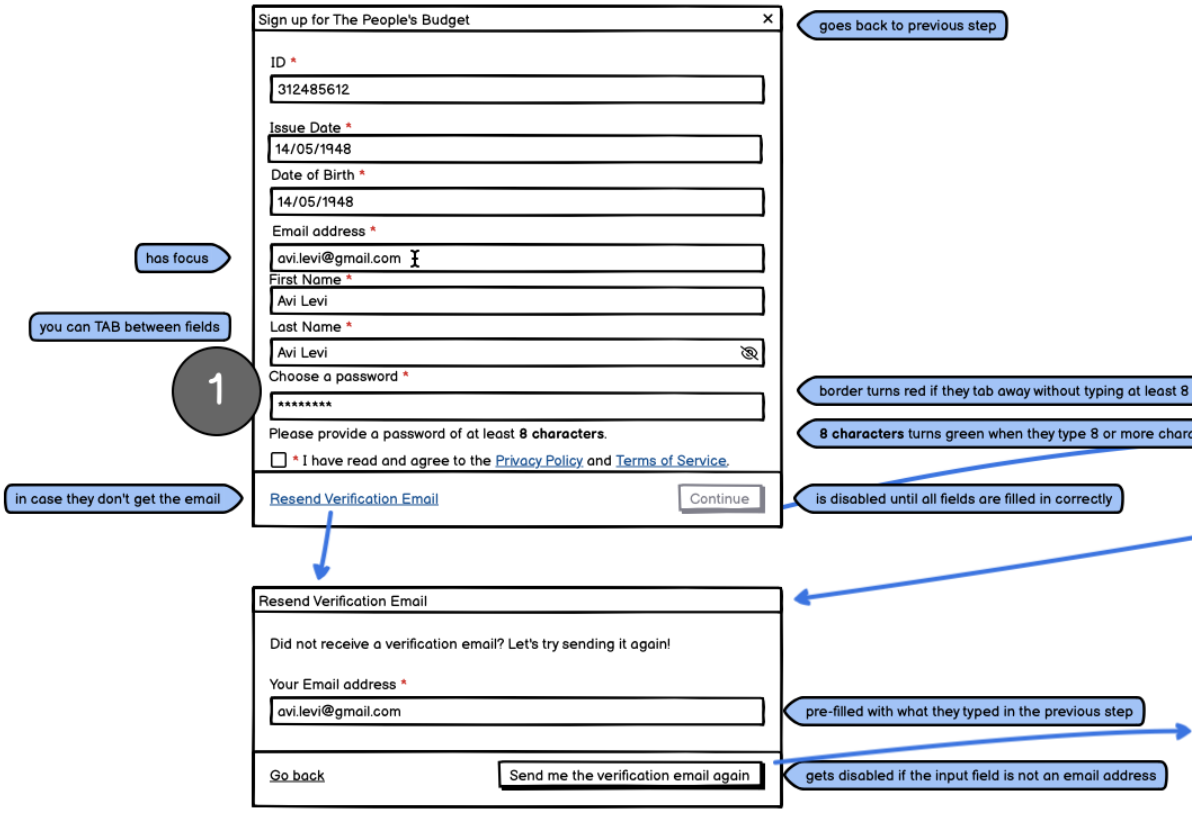
Add new Project:
The system will store the name of the new project and its description (the information about the project itself) and add it to the list of existing projects.

UX & UI Screenshots

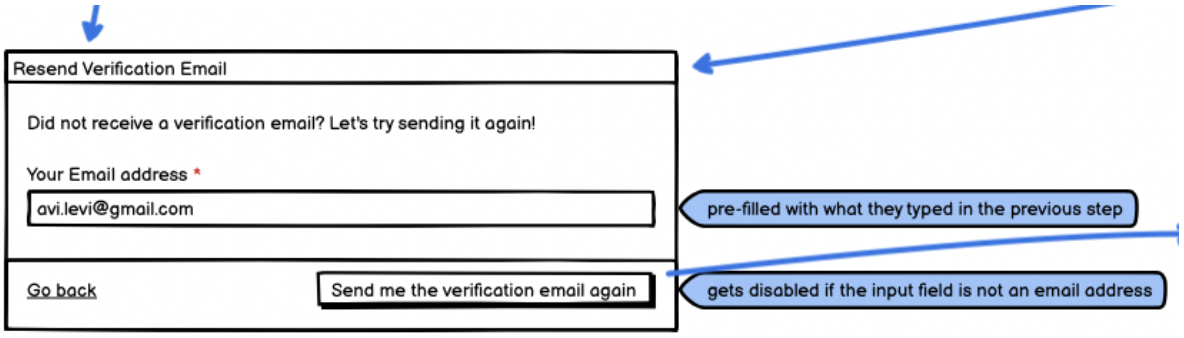
Sign Up Flow



Sign Up



Resend Verification Email



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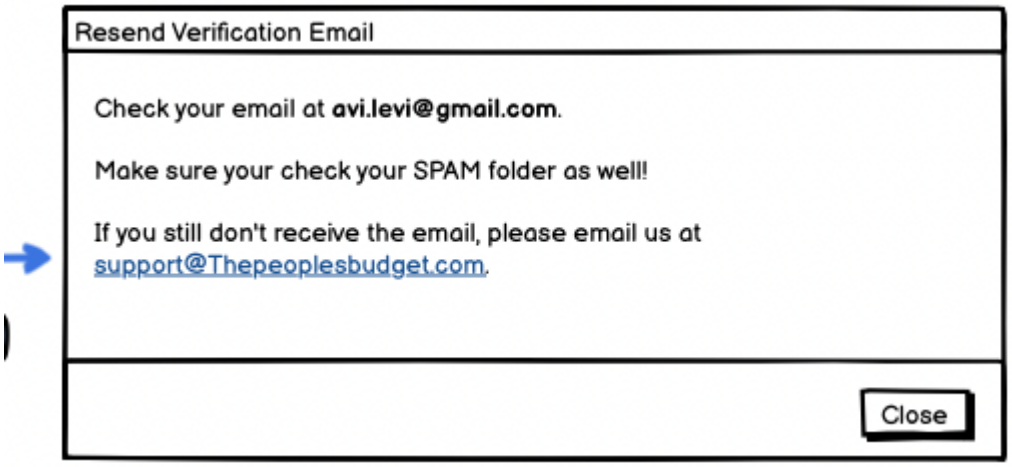
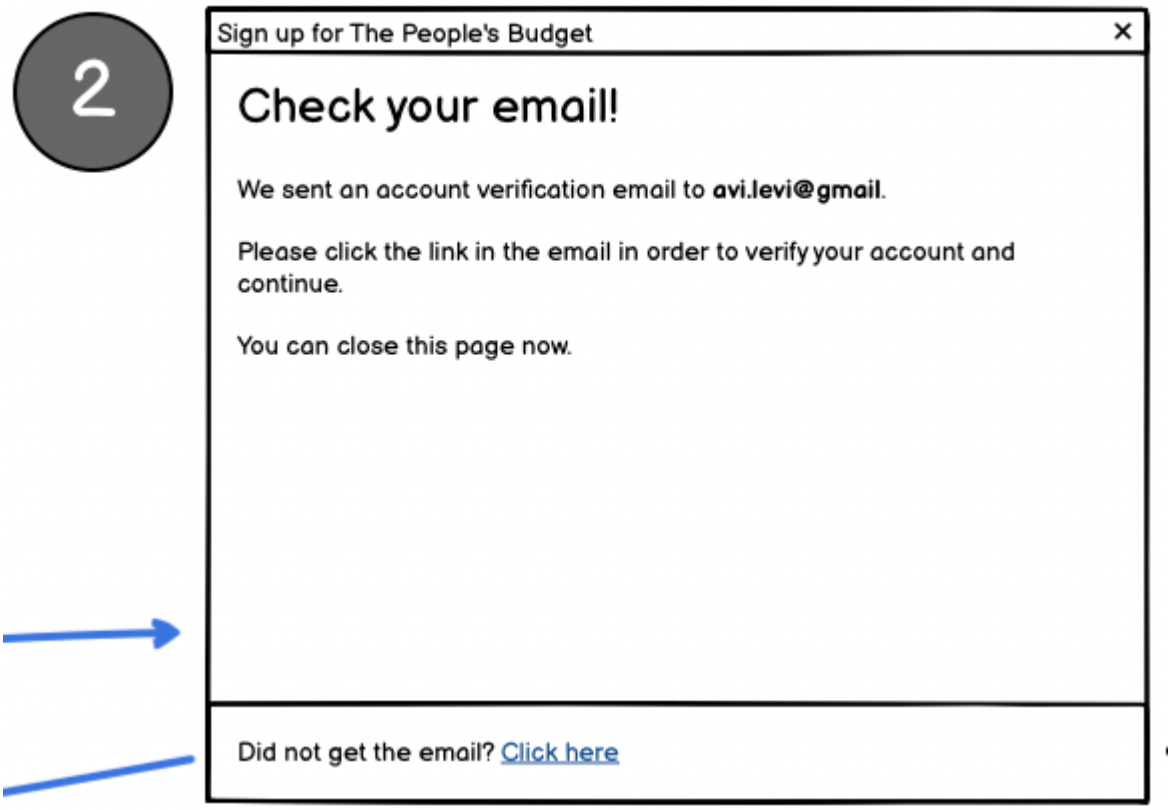
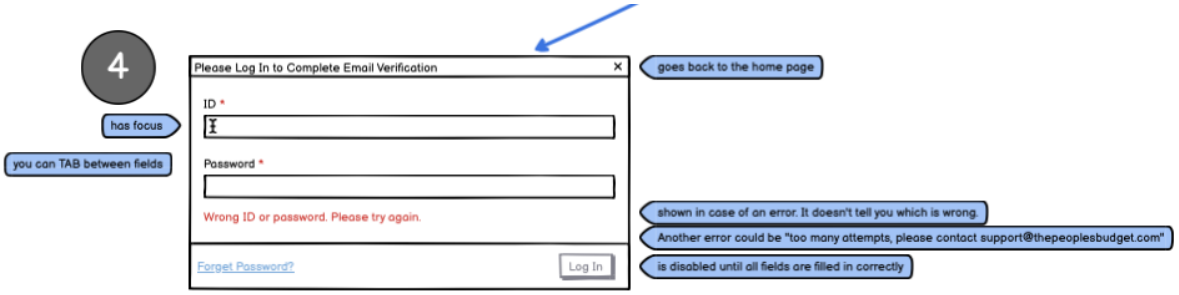


Check Your Email

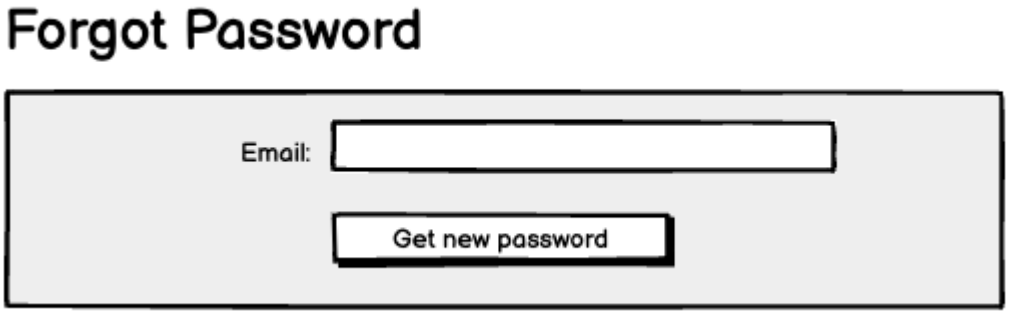


Email

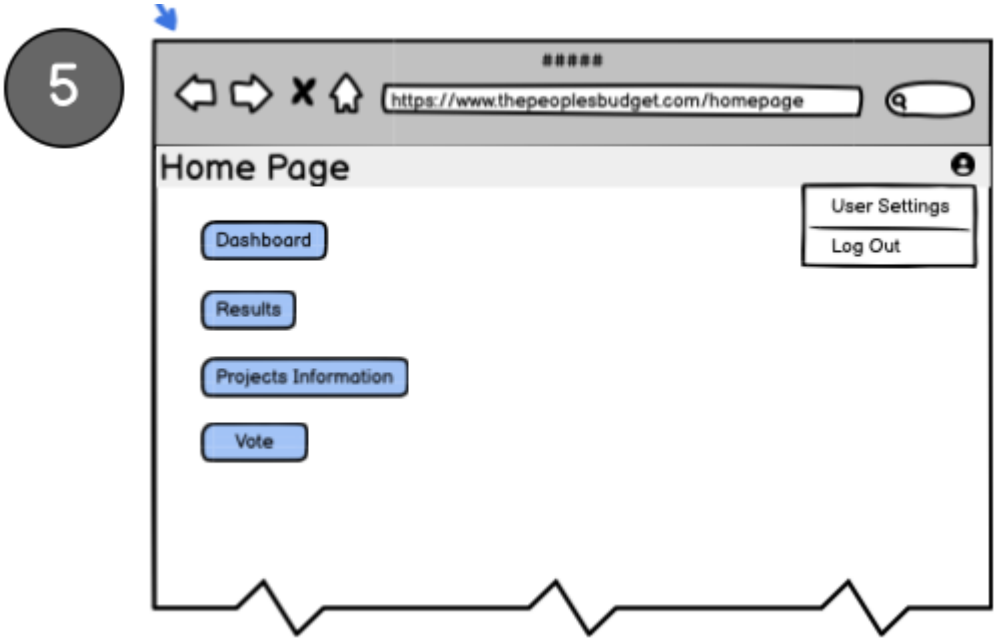
Log In



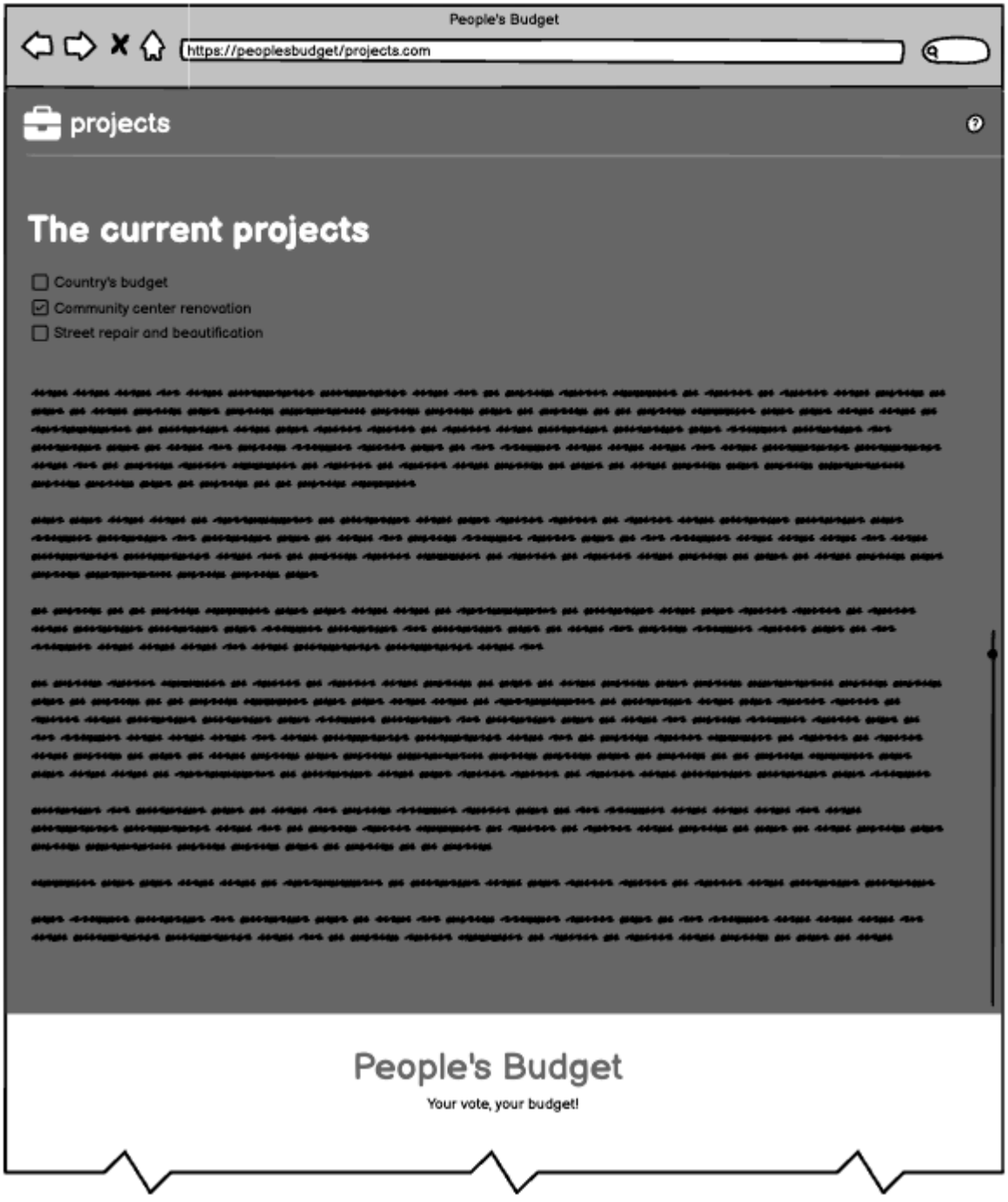
Forget Password



Home Page



Projects

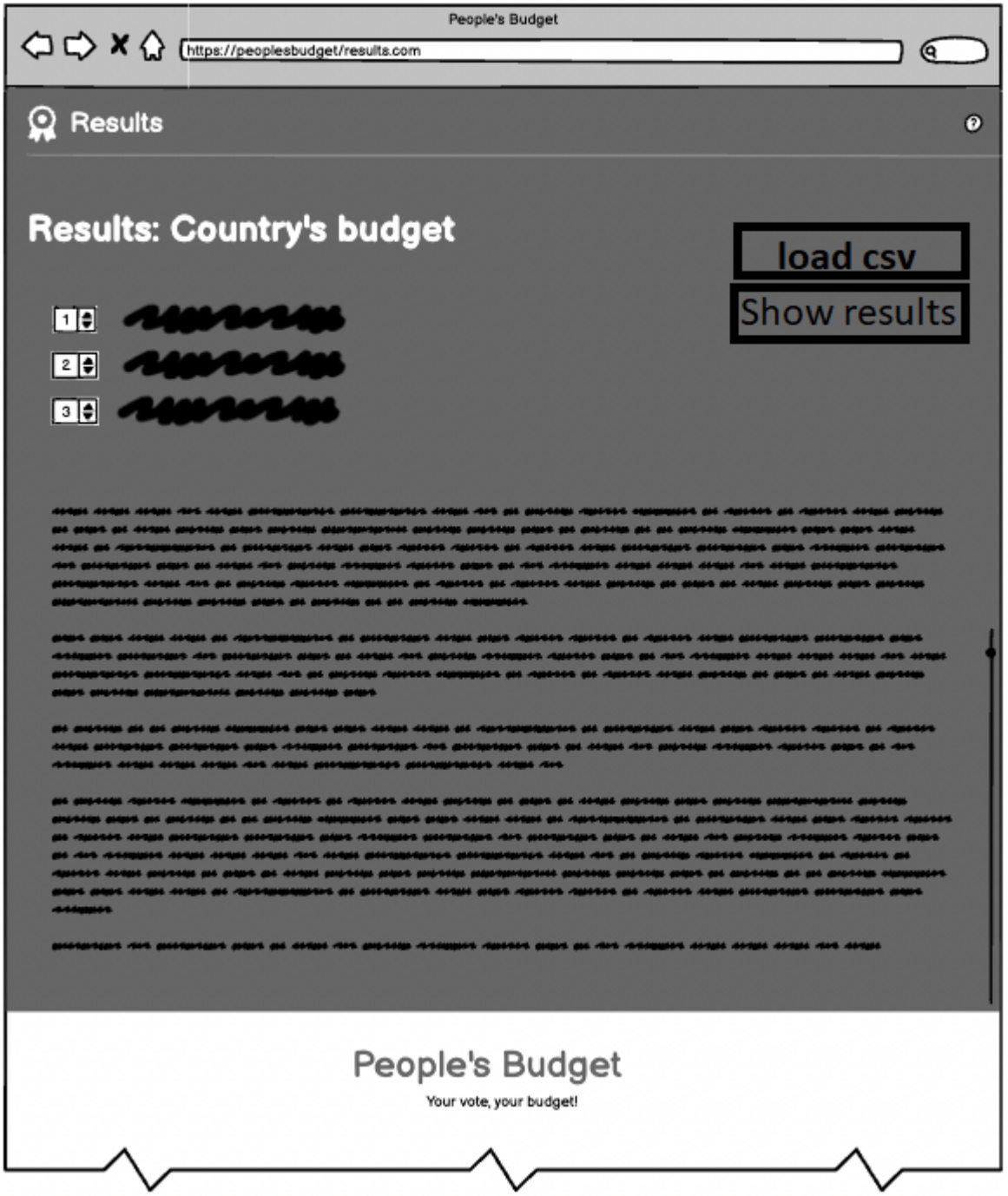


Vote

People’s Budget
Your vote, your budget!

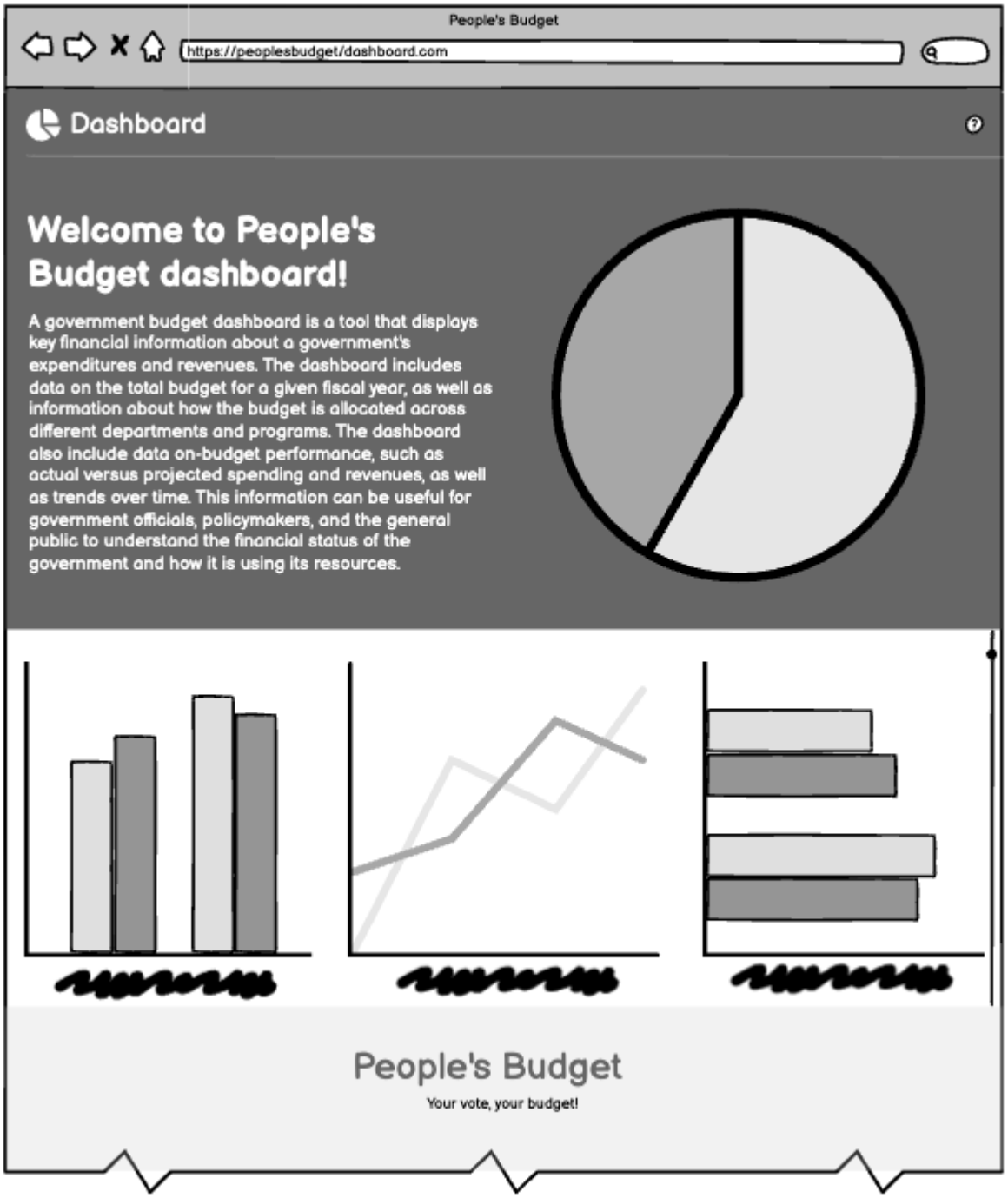
Results

People’s Budget
Your vote, your budget!



DashBoard

People’s Budget
Your vote, your budget!



People’s Budget
Your vote, your budget!