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ОБРАЗОВАТЕЛЬНОЕ УЧРЕЖДЕНИЕ ВЫСШЕГО ОБРАЗОВАНИЯ

“НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО”

(Университет ИТМО)

Факультет Программной инженерии и компьютерной техники

ОТЧЕТ

О НАУЧНО-ИССЛЕДОВАТЕЛЬСКОЙ РАБОТЕ:

“Postex Website”

структура и правила оформления

в соответствии с требованиями ГОСТ 7.32–2021

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# 3. Introduction

This is a social application that helps you make posts and share information. Also, it automatically make hashtags, which help users to search post which they want

The aim of the work is to create a web application. To achieve this goal, the following steps should be taken:

— formulate an application idea;

— consider analogues

— design use cases;

— design the database structure;

— design the application interface;

— select technology stack;

— develop the client side;

— write a server side to handle user requests;

— run the application and check its functionality.

# 

# 4. Analytical section

## 4.1 Idea

The idea is to create an app that will help you share information with others and will help you find posts that are interesting.

## 4.2 High-level description:

Target audience - people who like to lead discussions. The application allows you to see the posts of all users and rate them.

## 4.3 High-level description of parts:

The people who can interact with the interface are guests, registered users, and administrators. Users and administrators can create posts in their own profile. Any authorized user can like the post or find it through the search and go to the user's page. The user can watch the posts of other users.

The web application will work with a database that will store user authentication data, posts, likes, user hashtags.

## 4.4 Description of analogs

## 1.VK

A social networking site that provides functions such as chatting with friends, adding people you know as friends, sharing text, videos and pictures, understanding news, watching videos, etc.

## 2.Facebook

A social networking site where you can share photos, make posts, chat with friends, find friends of the opposite sex, etc.

## 3.LinkedIn

A special social networking site for IT workers, looking for potential workers, chatting with friends, sharing photos and videos and your achievements, etc

## 4.5 Comparative table of analogues

The table 1.0 shows a comparison of analogs.

## Тable 1.0 - comparative table of analogues

|  |  |  |  |
| --- | --- | --- | --- |
| Categoty | Vk | Facebook | Linkedin |
| Social Application | + | + | + |
| Chat | + | + | + |
| Promote Strangers | + | + | + |
| Post | + | + | + |
| Share pictures and videos | + | + | + |
| Paid | - | - | - |

# 

# 5. Use cases section

This section contains a list of actors, all use cases, actors and their interactions.

## 5.1 List of actors

Guest:

\* See the information about website

\* Register an account

\* Can write feedback

User:

\* Edit your own information

\* Make posts

\* Search posts by hashtag

\* Can add hashtags for posts

\* Like or dislike the searched post

\* Do what guests can do

Administrator:

\* Set and unset users as ADMIN

\* Delete users

\* Create random users

\* Do what users and guests can do

## 5.2 Use case diagram

The figure 1.0 shows a use case diagram for the above actors.

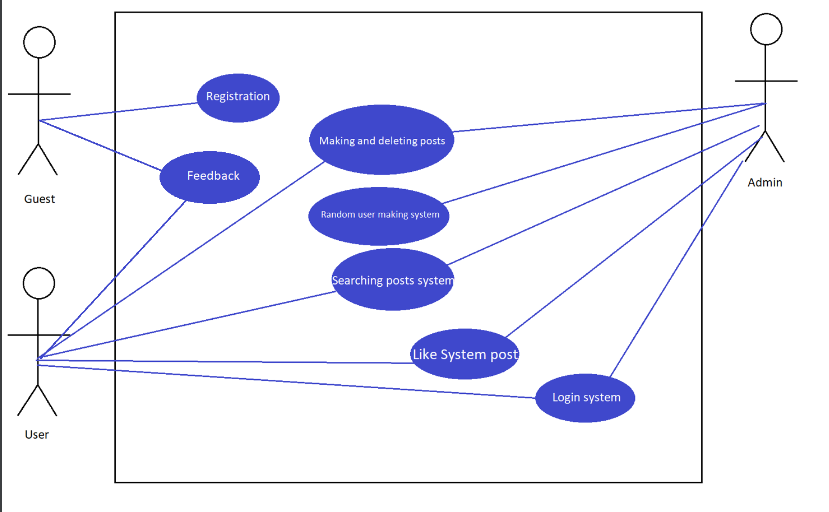


Figure 1 - Use case diagram

## 5.3 Use case specification

The figures 2.1 – 2.8 show the use cases that are available for the actors listed above.

Изображение выглядит как текст, снимок экрана, монитор, экран

Автоматически созданное описание

Figure 2.1 Description of Use Cases

Изображение выглядит как текст, монитор, снимок экрана, экран

Автоматически созданное описание

Figure 2.2 - BOM Portal Use Cases

Изображение выглядит как текст, снимок экрана, монитор, экран

Автоматически созданное описание

Figure 2.3 - Register Use Cases

Изображение выглядит как текст, снимок экрана, экран

Автоматически созданное описание

Figure 2.4 - Making and deletind posts Use Cases

Изображение выглядит как текст, снимок экрана, экран

Автоматически созданное описание

Figure 2.5 – Searching Use Cases

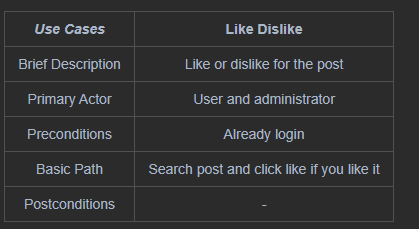


Figure 2.6 Like Dislike Use Cases

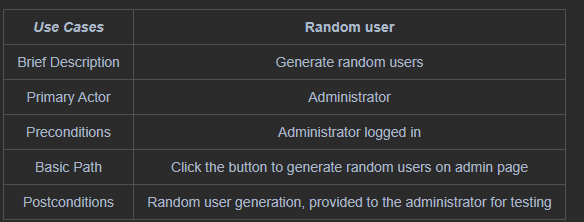


Figure 2.7 – Random user Use Cases

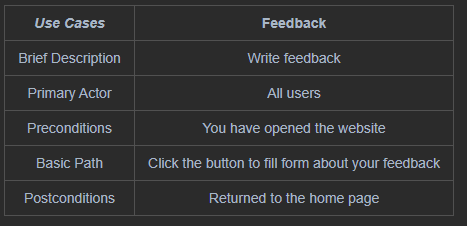
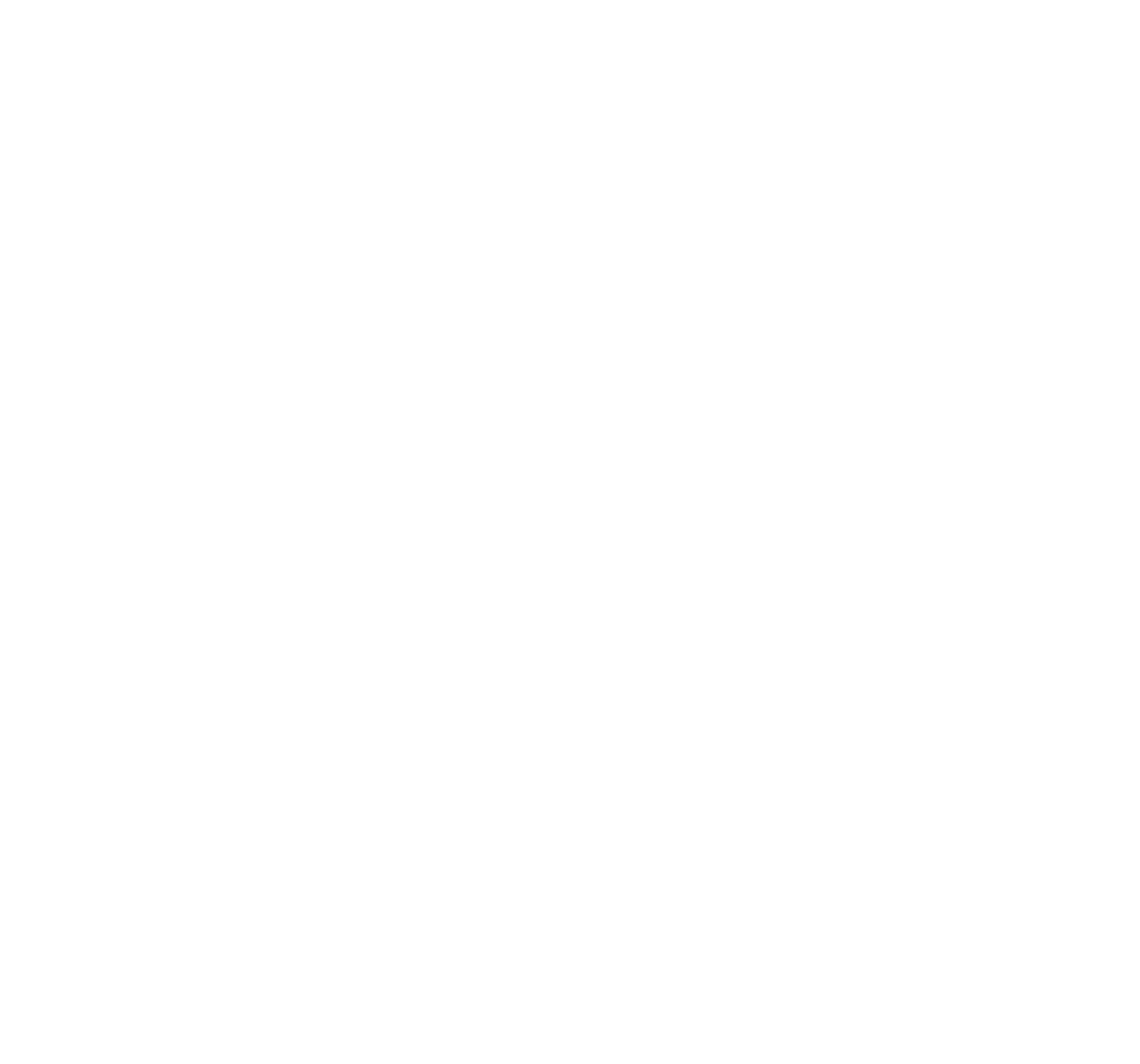


Figure 2.8 – Feedback Use Cases

# 6 DB Design

A database model is needed to indicate objects and relationships, constraints, rules, and operations to indicate the data semantics of a specific subject area. Generally, the database model establishes relationships between certain objects.

## 6.1 ER–диаграмма

## ER– the diagram of the relationship between the entity is presented in figure 3.1

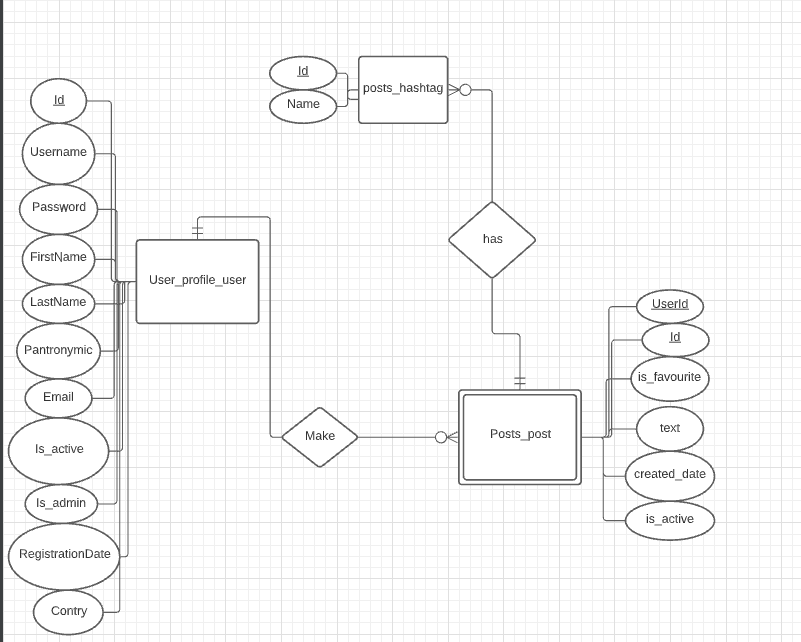


Figure 3.1 - ER diagram

## 

## 6.4 Datalogical model

Еhe datalogical model built on the basis of the EP diagram is shown in Figure 3.2Изображение выглядит как текст, внутренний, снимок экрана

Автоматически созданное описание

Figure 3.2 - Datalogical model

# 7. Interface design

## 7.1 Список интерфейсов

**- Page of login**

Login and password form, remember form, the ability to recover the password

**- Page of registration**

Registration form with required fields of login and password mail

**- Page of Feedback**

Form for feedback (login mail and the text itself)

**- Page about website**

Site description page

**- Page of making and deleting posts**

If the user is authorized, then a page is available on which he can write a post (add a hashtag to it), a button to search for other posts

**- Page of searching posts by hashtags**

The field for entering keywords, if the desired post is not found, it will display that there is no such post

**- Page of searching posts**

Separate page for searching words in posts

**- Home page**

The home page of the site, from which you can use adding a post, viewing information about the site and sending feedback

**- Login admin page**

Login for admins

**- Admin page**

Where admins can delete/make users/posts

## 7.2 Диаграмма для гостей и пользователей

## Диаграмма интерфейсов для гостей и пользователей представлена на рисунке 5.1

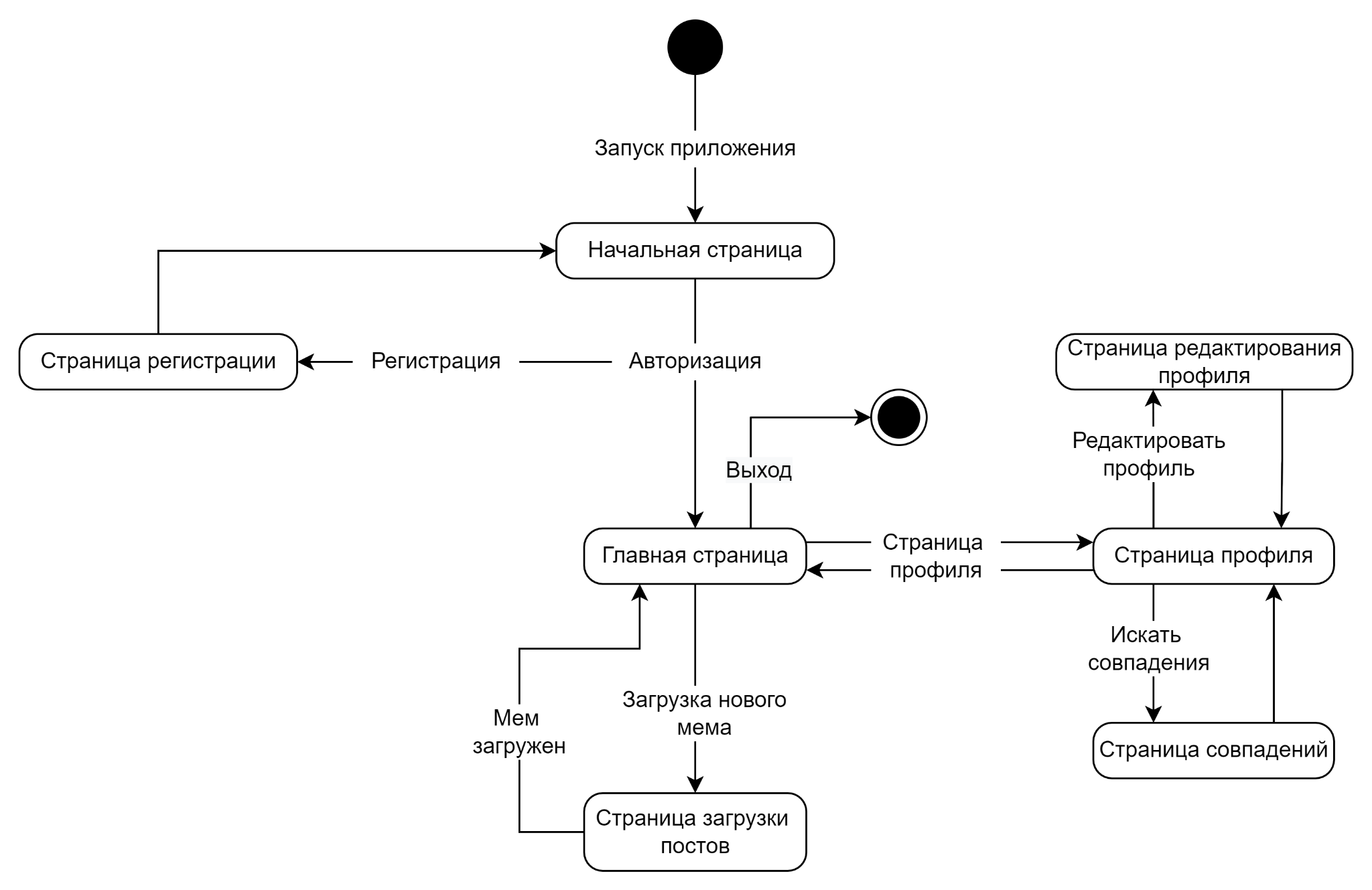


Рисунок 5.1 - Диаграмма для гостей и пользователей

## 7.3 Диаграмма для администратора

## Диаграмма интерфейсов для администратора представлена на рисунке 5.2

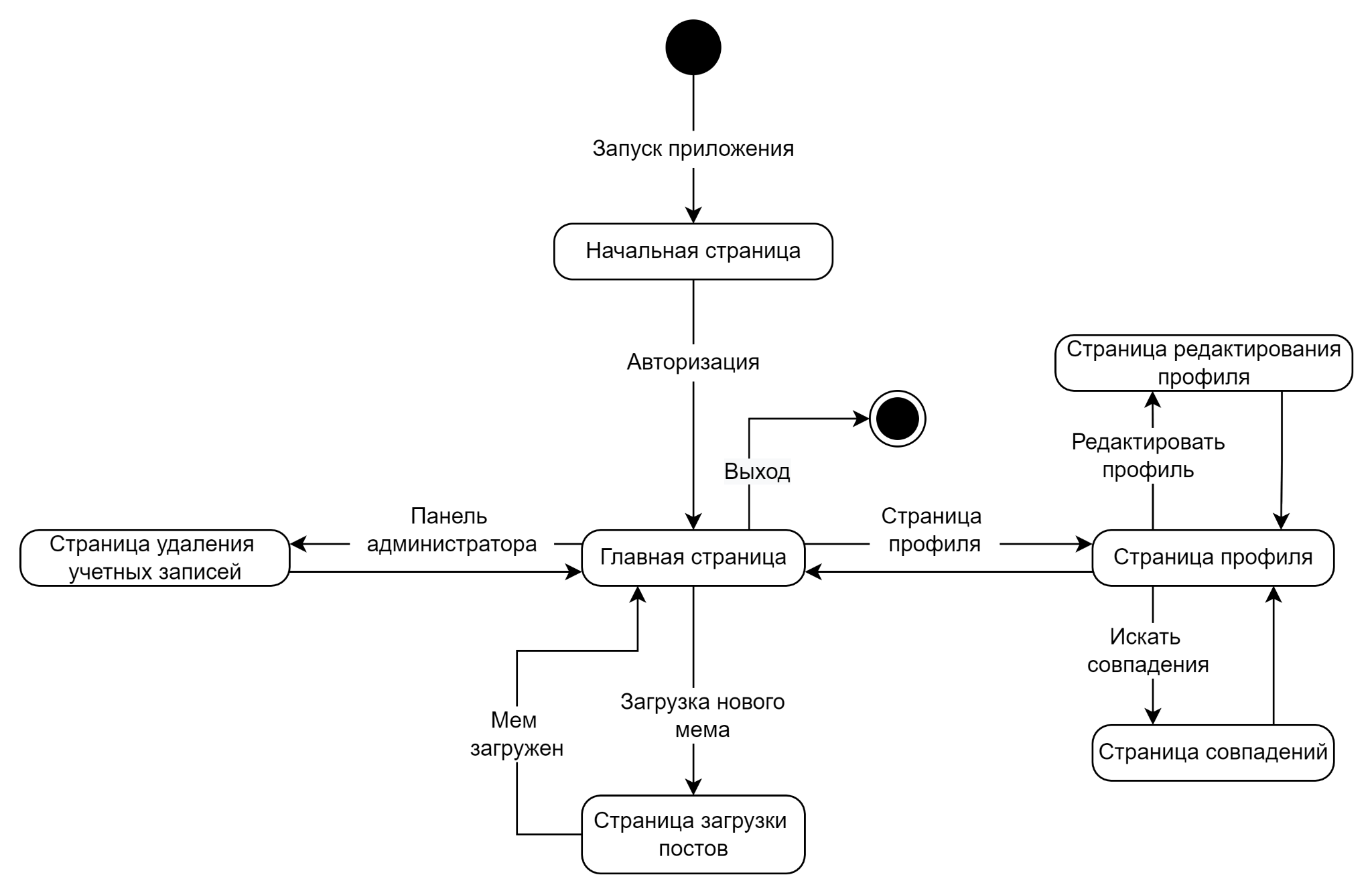


Рисунок 5.2 - Диаграмма для администратора

# 8. Implementation of the project

To develop the application, I used the django framework and technologies like bootstrap and jquery.

Development was carried out through GIT.

https://github.com/Erkobrax/djangoProject.git

## 8.1 Structure

The figure 6.1 shows the structure of the application:

Изображение выглядит как текст

Автоматически созданное описание

Figure 6.1 – structure of app