

НАПРАВЛЕНИЕ ПОДГОТОВКИ **09.03.01 Информатика и вычислительная техника**

по лабораторной работе № 13

**Название:** Зачётная работа

**Дисциплина:** Интернет-Программирование

Преподаватель \_\_\_\_\_

\_\_\_\_\_ (Подпись, дата) \_\_\_\_\_ (И.О. Фамилия)

Москва, 2020

## Задание

Основная задача зачётной работы - продемонстрировать полученные знания в создании собственного веб-приложения. **Тему зачётной работы допустимо выбрать самостоятельно, но обязательно согласовать с преподавателем.**

Обязательные требования к программе:

- Для реализации использовать Ruby on Rails.
- Необходимо иметь контроллеры, обеспечивающие обработку запросов.
- Необходимо использовать модели для хранения данных в БД.
- Необходимо обеспечить аутентификацию пользователей.
- При реализации клиентской части необходимо применить код на языке Javascript и таблицы стилей CSS.
- Провести интернационализацию приложения и обеспечить вывод надписей на русском языке (см. пример в лекции 11).

## Исходный код

```
#application_controller.rb
class ApplicationController < ActionController::Base
  helper_method :current_user
  before_action :require_auth, except: [:new, :edit, :destroy, :create, :show, :index]
  #before_action :require_auth, only: [:index]

  def current_user
    if session[:user_id]
      @current_user ||= User.find(session[:user_id])
    else
      @current_user = nil
    end
  end

  def require_auth
    current_user
    redirect_to login_path unless @current_user
  end
end

#com_controller.rb
class ComController < ApplicationController
  def index
  end

  def create_post
    user = User.find_by_id(session[:user_id])
```

```
Bredpost.create_post(params[:title_post], params[:bredpost][:create_post],
user.name)
  redirect_to com_index_url
end
```

```
def like_post
  user = User.find_by_id(session[:user_id])
  Bredlike.create_post(params[:id_like], user.name)
  redirect_to com_index_url
end
```

```
def create_comment
  user = User.find_by_id(session[:user_id])
  Bredcomment.create_comment(params[:button], params[:bredcomment]
[:create_comment], user.name)
  redirect_to com_index_url
end
end
```

```
#session_controller.rb
class SessionsController < ApplicationController
  def new
  end

  def create
    user = User.find_by_name(params[:name])
    if user && user.authenticate(params[:password])
      session[:user_id] = user.id
      redirect_to root_url, notice: "Logged in!"
    else
      flash.now[:alert] = "Name or password is invalid"
      render "new"
    end
  end

  def destroy
    session[:user_id] = nil
    redirect_to root_url, notice: "Logged out!"
  end
end
```

#bredcomment.rb

```
class Bredcomment < ApplicationRecord
```

```
  validates :id_p, presence: true
```

```
  validates :id_c, presence: true
```

```
  validates :content, presence: true
```

```
  validates :name, presence: true
```

```
  class << self
```

```
    def create_comment(id_p, content, name)
```

```
      create(id_p: id_p, id_c: Time.now, content: content, name: name);
```

```
    end
```

```
  end
```

```
end
```

#bredlike.rb

```
class Bredlike < ApplicationRecord
```

```
  validates :id_l, presence: true
```

```
  validates :name, presence: true
```

```
  class << self
```

```
    def create_post(id, name)
```

```
      if where({:id_l => id, :name => name}).count().zero?
```

```
        create(id_l: id, name: name)
```

```
      end
```

```
    end
```

```
  end
```

```
end
```

#bredpost.rb

```
class Bredpost < ApplicationRecord
```

```
  validates :id, presence: true, uniqueness: true
```

```
  validates :title, presence: true
```

```
  validates :content, presence: true
```

```
  validates :name, presence: true
```

```
  class << self
```

```
    def create_post(title, content, name)
```

```
      create(id: Time.new, title: title, content: content, name: name)
```

```
    end
```

```
  end
```

```
end
```

=====db

```
class CreateUsers < ActiveRecord::Migration[6.0]
```

```
  def change
```

```
    create_table :users do |t|
```

```
      t.string :name
```

```
      t.string :password_digest
```

```
      t.timestamps
```

```
    end
```

```
  end
```

```
end
```

```
class CreateBredlikes < ActiveRecord::Migration[6.0]
```

```
  def change
```

```
    create_table :bredlikes do |t|
```

```
      t.integer :id_l
```

```
      t.string :name
```

```
      t.timestamps
```

```
    end
```

```
  end
```

```
end
```

```
class CreateBredposts < ActiveRecord::Migration[6.0]
```

```
  def change
```

```
    execute "ALTER TABLE collections ADD PRIMARY KEY (id);"
```

```
    create_table :bredposts, :id => false do |t|
```

```
      t.integer :id
```

```
      t.string :title
```

```
      t.string :content
```

```
      t.string :name
```

```
      t.timestamps
```

```
    end
```

```
    add_index :bredposts, :id
```

```
  end
```

```
end
```

```
class CreateBredcomments < ActiveRecord::Migration[6.0]
```

```
def change
  create_table :bredcomments do |t|
    t.integer :id_p
    t.integer :id_c
    t.string :content
    t.string :name

    t.timestamps
  end
end
end
```

#index.html.erb

```
<head>
<title>Breddit</title>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<style type="text/css">
  *{
    padding: 0;
    margin: 0;
  }
  body {
    padding: 0;
    margin: 0;
    background-image: url(/assets/background.png);
  }
  a:visited {
    color: white;
  }
  a:hover {
    color: rgba(255, 255, 255, 0.7);
  }
  header{
    padding: 18px;
    margin-bottom: 50px;
    color: white;
    background-color: rgba(0, 0, 0, 0.6);
    min-height: 30px;
    text-align: center;
    font-size: 24px;
  }
```

```
.list {
  margin: 0 20%;
  text-align: center;
}
.welcom {
  font-size: 24px;
  color: white;
  margin: 50px 0;
}
#title_post {
  float: left;
  width: 90%;
  height: 30px;
  border: 0;
}
.title {
  text-align: center;
}
.name_post {
  text-align: right;
}
.comment_form {
  border-top: solid 2px;
  margin-right: 3px;
  margin-bottom: 30px;
}
.send_comment {
  display: block;
  position: absolute;
  width: 60%;
  height: 26px;
  background: rgba(255, 255, 255, 0.3);
  color: white;
  font-size: 20px;
}
.comment {
  float: right;
  width: 90%;
  border: 1px solid white;
}
p {
  font-size: 24px;
```

```

    color: white;
    background: rgba(255, 255, 255, 0.3);
    text-align: left;
    padding: 20px 0;
}
input{
    background-color: rgba(255, 255, 255, 0.3);
    color: white;
    float: right;
    width: 10%;
    font-size: 24px;
}
textarea {
    background-color: rgba(255, 255, 255, 0.3);
    color: white;
    font-size: 24px;
    width: 100%;
}
}
</style>
</head>

```

```

<header>
  <% if current_user %>
    Logged in as <%= current_user.name %>
    <%= link_to "Log Out", logout_path %>
  <% else %>
    <%= link_to "Sign Up", signup_path %> or
    <%= link_to "Log In", login_path %>
  <% end %>
</header>

```

```

<div class="list">
  <div class="welcom">Welcom to Breddit</div>

```

```

  <div class="new_post">
    <%= form_tag("/com/create_post", :method => "get") do %>
      <%= text_field_tag(:title_post, value = "", required: true, :placeholder => "Title")
    %>
    <%= submit_tag("Send", :id => "Send_new_post") %>
  </div>

```



```

    <%= text_area("bredpost", "create_post", {:controller => "com", :action =>
"create_post", size: "80x7", required: true, :placeholder => "Post text"}) %>
    <br/><br/>
    <% end %>
</div>

<div id="content">
    <% i = 0 %>
    <% Bredpost.all.each do |bred| %>
        <% h = 3 * 60 + 30 * bred.content.size / 80 + 150 + Bredcomment.where(:id_p =>
bred.id).count * 120 %>
        <% i += 1 %>
        <div style='height:<%= "#{h}"%>px;' id="block_content">
            <%= button_to "Like #{Bredlike.where(:id_l => bred.id).count}",
                {:controller => "com", :action => "like_post", :id_like => bred.id }, :id =>
"#{i}"%>
            <p class="title"><%= bred.title %> </br>
            <p><%= bred.content %>
            <p class="name_post">Name: <%= bred.name %>

            <%= form_tag("/com/create_comment", :method => "post", :class =>
"comment_form") do %>
                <%= text_area("bredcomment",
                    "create_comment",
                    {:controller => "com",
                    :action => "create_comment",
                    size: "80x3",
                    required: true,
                    :placeholder => "Comment text" }) %>
                <%= button_tag "Send", :value => bred.id, :class => "send_comment" %>
            <% end %>

            <% Bredcomment.where(:id_p => bred.id).each do |comment| %>
                <div class="comment">
                    <%= button_to "Like #{Bredlike.where(:id_l => comment.id_c).count}",
                        {:controller => "com", :action => "like_post", :id_like => comment.id_c }%>
                    <p>Name: <%= comment.name %>
                    <p><%= comment.content %>
                </div>
            <% end %>
        </div>
    <% end %>
</div>
<% end %>

```

```
</div>
</div>
```

#new.html.erb

```
<head>
  <title>Breddit</title>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <style type="text/css">
    *{
      padding: 0;
      margin: 0;
    }
    body {
      padding: 0;
      margin: 0;
      background-image: url(/assets/background.png);
    }
    #body {
      background-color: #0023359c;
      width: 100%;
      height: 100vh;
      display: grid;
    }
    a:visited {
      color: white;
    }
    a:hover {
      color: rgba(255, 255, 255, 0.7);
    }
    #form {
      justify-self: center;
      align-self: center;
    }
    .button_to {
      float: right;
      margin-top: -42px;
      margin-right: -4px;
      height: 40px;
      width: 50%;
    }
    .actions {
```

```

    width: 50%;
  }
  p {
    font-size: 24px;
    color: white;
    text-align: center;
    padding: 20px 0;
  }
  input{
    background-color: rgba(255, 255, 255, 0.3);
    color: white;
    font-size: 24px;
    width: 100%;
  }
</style>
</head>

```

```

<div id="body">
  <div id="form">
    <p>Login</p>
    <%= form_tag sessions_path do |form| %>
      <div class="field">
        <%= text_field_tag :name, value = "", required: true, :placeholder => "name" %>
      </div>
      <div class="field">
        <%= password_field_tag :password, value = "", required: true, :placeholder =>
"password" %>
      </div>
      <div class="actions">
        <%= submit_tag "Login" %>
      </div>
    <% end %>
    <%= button_to('Back', com_index_path) %>
    <p id="alert">
      <%= alert %>
    </p>
  </div>
</div>

```

```

#_form.html.erb
<%= form_with(model: user, local: true) do |form| %>
  <% if user.errors.any? %>

```

```
<div id="error_explanation">
  <h2><%= pluralize(user.errors.count, "error") %> prohibited this user from being
saved:</h2>
```

```
  <ul>
    <% user.errors.full_messages.each do |message| %>
      <li><%= message %></li>
    <% end %>
  </ul>
</div>
<% end %>
```

```
<div class="field">
  <%= form.text_field :name, :placeholder => "name" %>
</div>
```

```
<div class="field">
  <%= form.password_field :password, :placeholder => "password" %>
</div>
```

```
<div class="field">
  <%= form.password_field :password_confirmation, :placeholder =>
"password_confirmation" %>
</div>
```

```
<div class="actions">
  <%= form.submit %>
</div>
<% end %>
```

#new.html.erb

```
<head>
  <title>Breddit</title>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <style type="text/css">
    *{
      padding: 0;
      margin: 0;
    }
    body {
```

```
padding: 0;
margin: 0;
background-image: url(/assets/background.png);
}
#body {
  background-color: #0023359c;
  width: 100%;
  height: 100vh;
  display: grid;
}
a:visited {
  color: white;
}
a:hover {
  color: rgba(255, 255, 255, 0.7);
}
#form {
  justify-self: center;
  align-self: center;
}
.button_to {
  float: right;
  margin-top: -42px;
  margin-right: -4px;
  height: 40px;
  width: 50%;
}
.actions {
  width: 50%;
}
p {
  font-size: 24px;
  color: white;
  text-align: center;
  padding: 20px 0;
}
input{
  background-color: rgba(255, 255, 255, 0.3);
  color: white;
  font-size: 24px;
  width: 100%;
}
```

```
</style>
```

```
</head>
```

```
<div id="body">
```

```
  <div id="form">
```

```
<p>New User</p>
```

```
<%= render 'form', user: @user %>
```

```
<%= button_to('Back', com_index_path) %>
```

```
</div>
```

```
</div>
```

```
#routes.rb
```

```
Rails.application.routes.draw do
```

```
  root 'com#index'
```

```
  resources :users
```

```
  get 'com/index'
```

```
  post 'com/index'
```

```
  get 'com/create_post'
```

```
  get 'com/like_post'
```

```
  post 'com/like_post'
```

```
  post 'com/create_comment'
```

```
  get 'com/create_comment'
```

```
  resources :sessions, only: [:new, :create, :destroy]
```

```
  get 'signup', to: 'users#new', as: 'signup'
```

```
  get 'login', to: 'sessions#new', as: 'login'
```

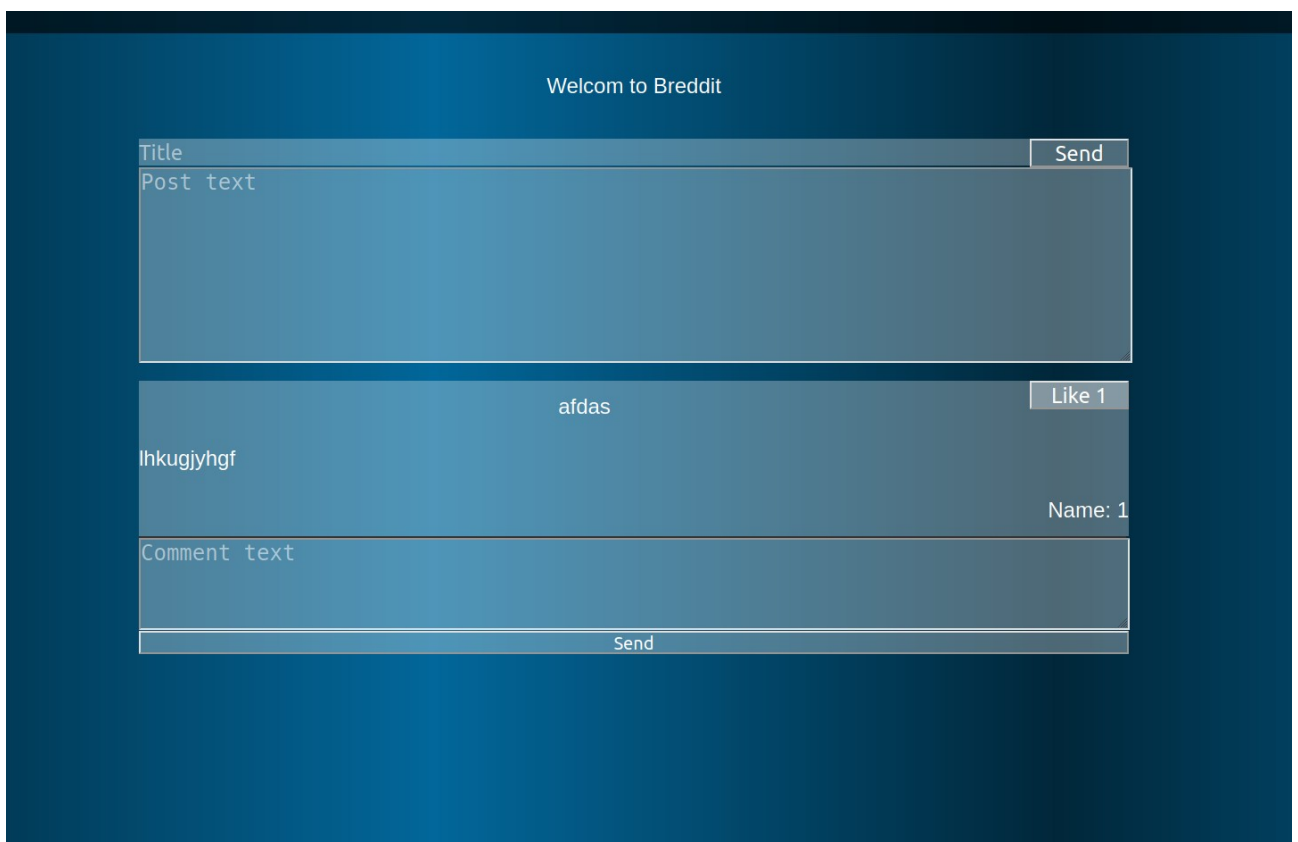
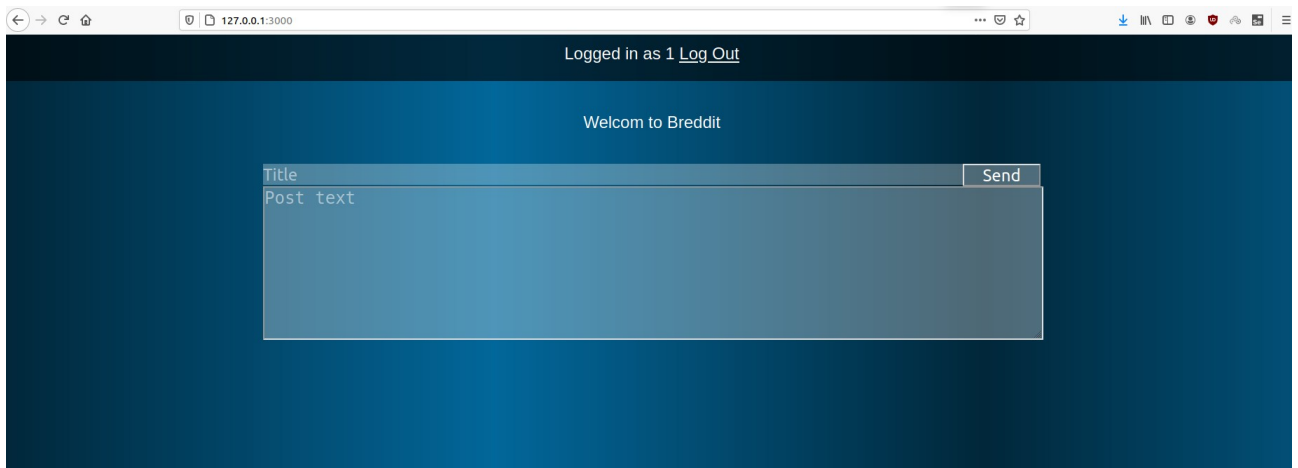
```
  get 'logout', to: 'sessions#destroy', as: 'logout'
```

```
  # For details on the DSL available within this file, see https://guides.rubyonrails.org/routing.html
end
```

## Фото

### Login

### New User





Welcom to Breddit

afdas

Like 1

lhkugjyhgf

Name: 1

Name: 1

Like 0

seff

```
~/Desktop/mgtu/mgtu_3_sem/IP/lab13/breddit(master*) » rake
Run options: --seed 11550

# Running:

.....

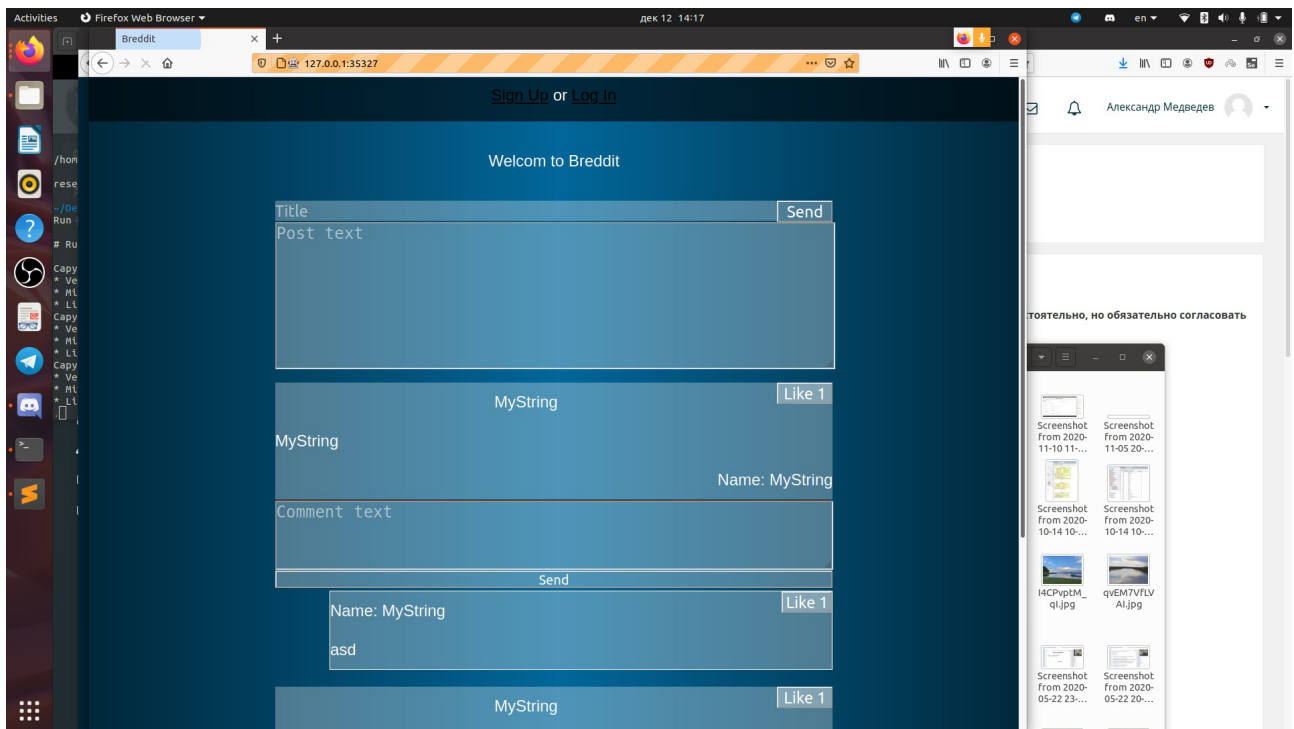
Finished in 15.196681s, 1.0529 runs/s, 1.0529 assertions/s.
16 runs, 16 assertions, 0 failures, 0 errors, 0 skips

~/Desktop/mgtu/mgtu_3_sem/IP/lab13/breddit(master*) »
```

```
~/Desktop/mgtu/mgtu_3_sem/IP/lab13/breddit(master*) » rake test:system
Run options: --seed 4652

# Running:

Capybara starting Puma...
* Version 4.3.7, codename: Mysterious Traveller
* Min threads: 0, max threads: 4
* Listening on tcp://127.0.0.1:19407
Capybara starting Puma...
* Version 4.3.7, codename: Mysterious Traveller
* Min threads: 0, max threads: 4
* Listening on tcp://127.0.0.1:13805
Capybara starting Puma...
* Version 4.3.7, codename: Mysterious Traveller
* Min threads: 0, max threads: 4
* Listening on tcp://127.0.0.1:35327
.....
```



## Вывод

В ходе лабораторной работы был разработан проект на подобии реддита включавший в себя rails приложение с sqlite и scaffold.