

Departments Project

Vision

“Departments Project” is a Flask web application for managing departments and employees.

Application should provide:

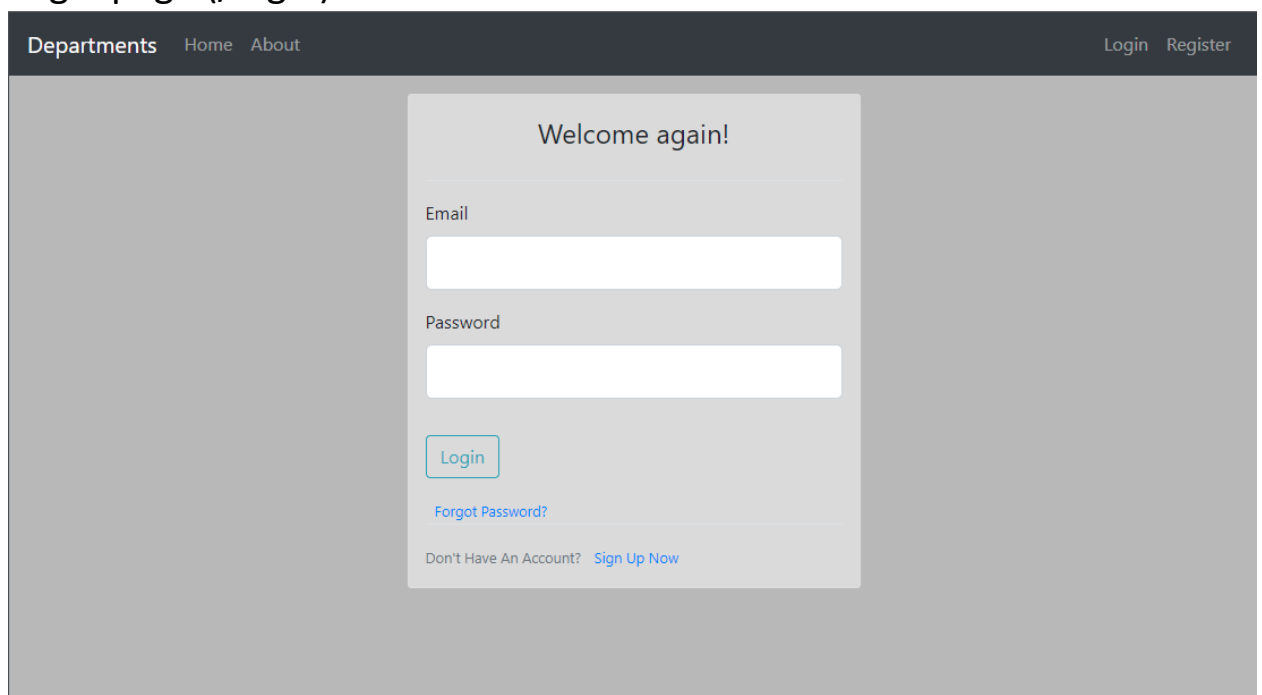
- Login/Register/Logout functions
- View of all departments with average salary displayed
- View of all employees for each department
- View of each employee’s profile
- Ability to send requests from regular users to admin(s)
- Filter of lists of employees, departments and requests by names
- Ability to reset password if a user forgot it

Admin features:

- Create/Read/Update/Delete employees, departments, roles (if required)
- Ability to accept or decline requests from users

Pages

Login page (/login):



Departments Home About Login Register

Welcome again!

Email

Password

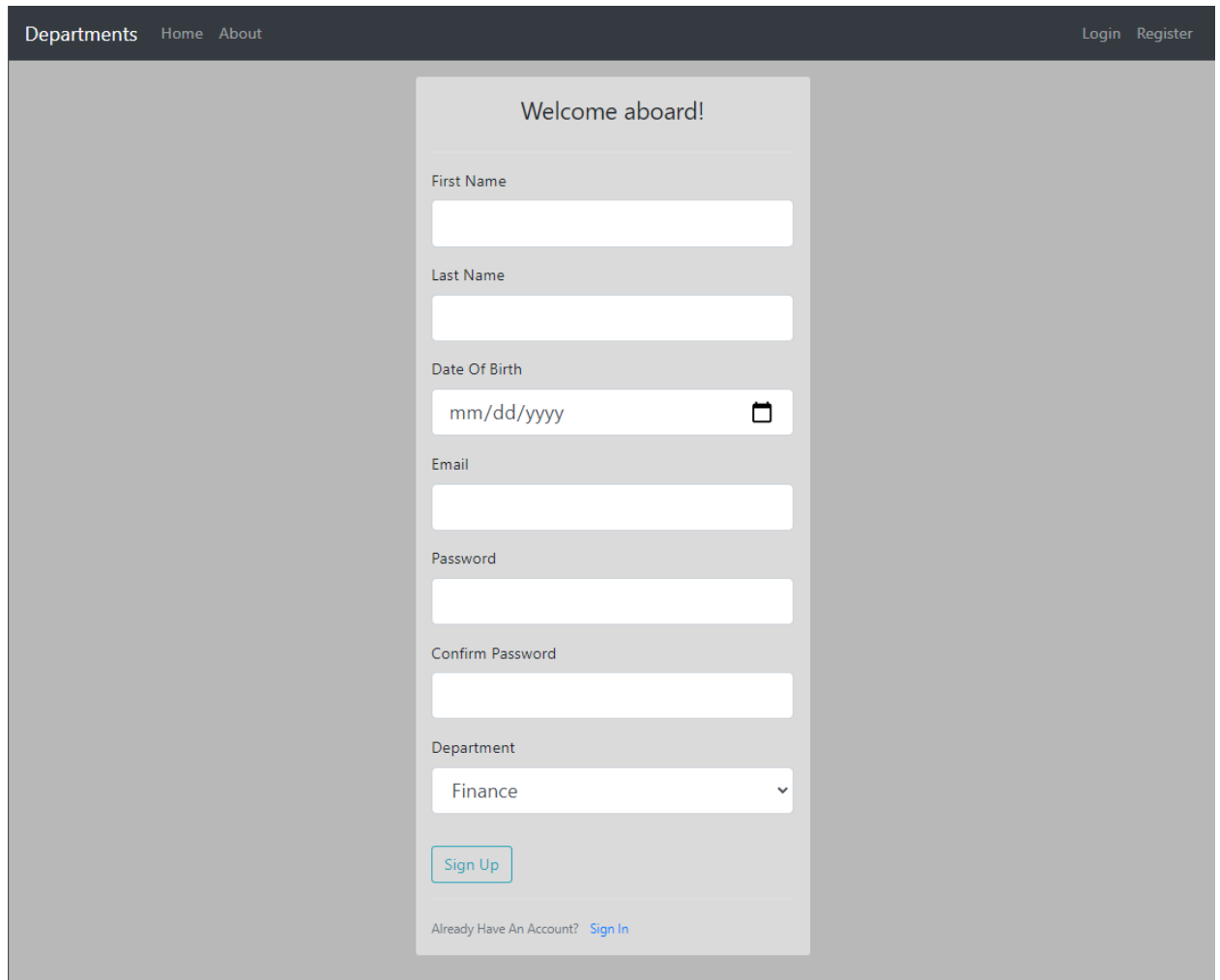
Login

[Forgot Password?](#)

Don't Have An Account? [Sign Up Now](#)

The purpose of this page is to let users log in to the system.

Register page (/register):



The screenshot shows a web application interface with a dark header. The header contains the text "Departments" (misspelled), "Home", and "About" on the left, and "Login" and "Register" on the right. The main content area has a light gray background. In the center, there is a white registration form titled "Welcome aboard!". The form contains the following fields: "First Name" (text input), "Last Name" (text input), "Date Of Birth" (text input with a placeholder "mm/dd/yyyy" and a calendar icon), "Email" (text input), "Password" (text input), "Confirm Password" (text input), and "Department" (a dropdown menu currently showing "Finance"). Below these fields is a blue "Sign Up" button. At the bottom of the form, there is a link that says "Already Have An Account? Sign In".

The purpose of this page is to let users register to the system.

Main page (/):

From regular user’s view:

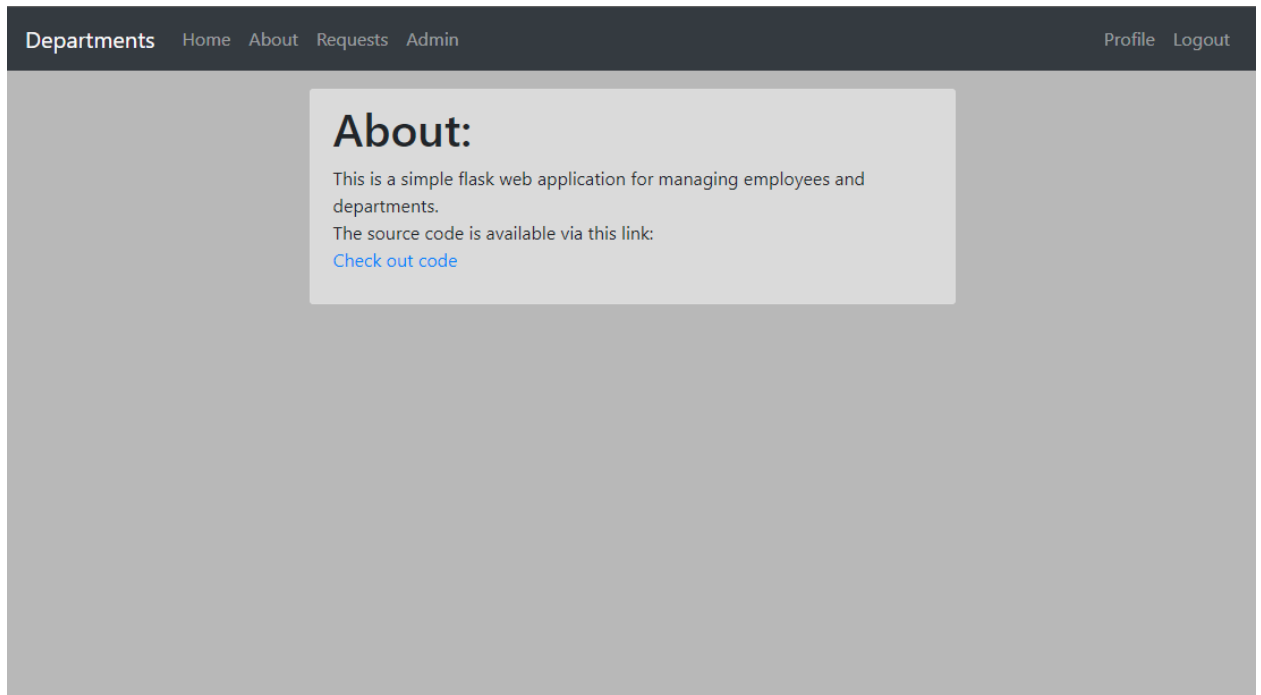
Departments	Home	About	Requests		Search	Profile	Logout
Title: Finance	Avg. salary: 0\$						
Title: Human Resources	Avg. salary: 1600.0\$						
Title: Contracts	Avg. salary: 0\$						
Title: Purchasing	Avg. salary: 0\$						
Title: Planning	Avg. salary: 0.0\$						
Title: Technical Office	Avg. salary: 0\$						
Title: IT	Avg. salary: 2157.5\$						

From admin’s view:

Departments	Home	About	Requests	Admin		Search	Profile	Logout
Title: Finance	Avg. salary: 0\$				Edit			
Title: Human Resources	Avg. salary: 1600.0\$				Edit			
Title: Contracts	Avg. salary: 0\$				Edit			
Title: Purchasing	Avg. salary: 0\$				Edit			
Title: Planning	Avg. salary: 0.0\$				Edit			
Title: Technical Office	Avg. salary: 0\$				Edit			
Title: IT	Avg. salary: 2157.5\$				Edit			

The purpose of this page is to list all departments.

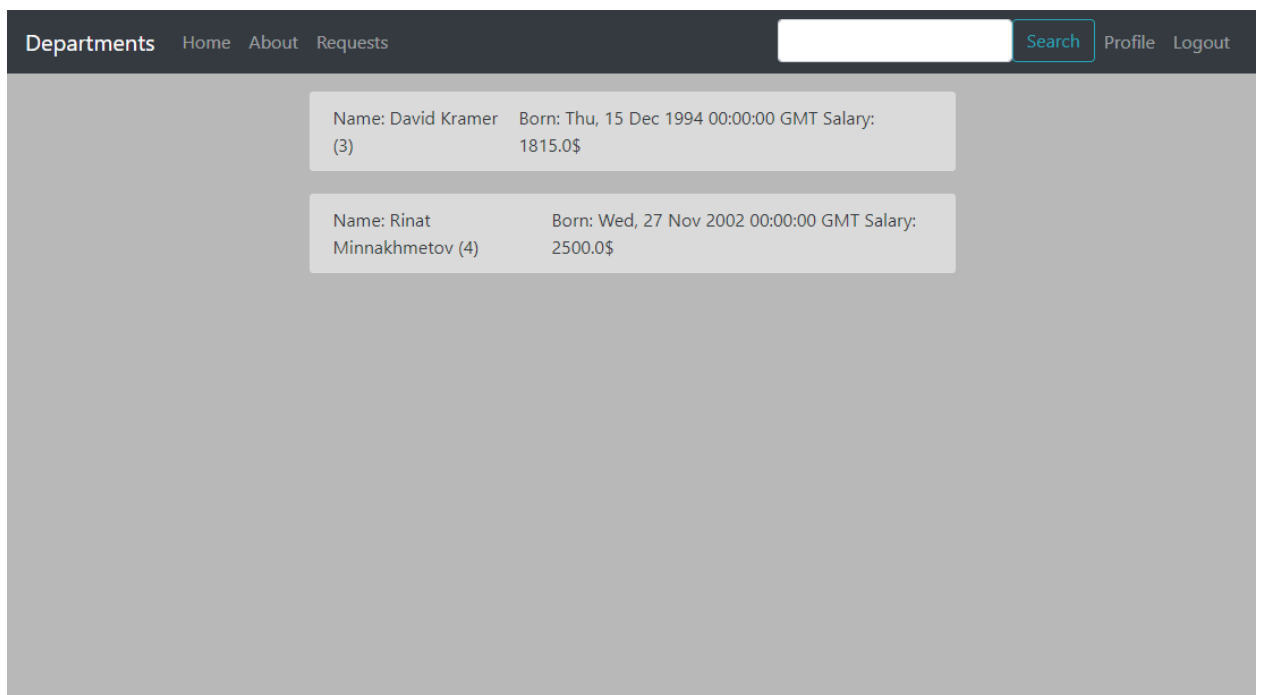
About page (/about):



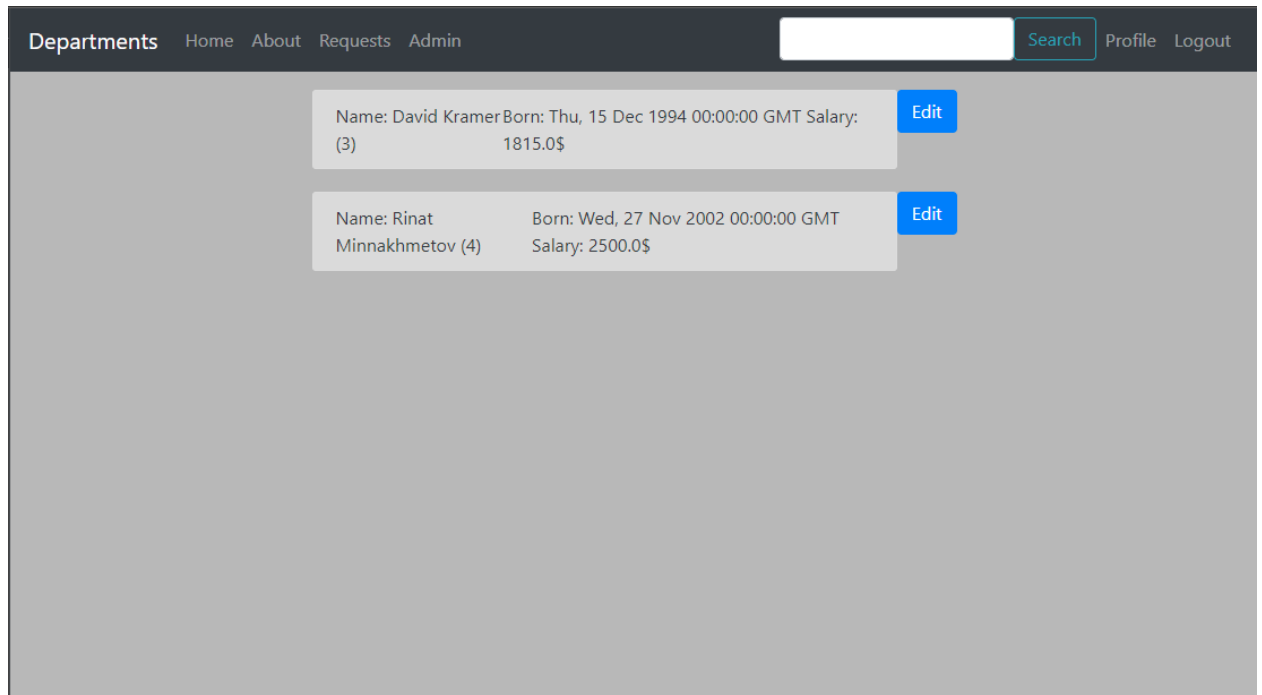
The purpose of this page is to show short information about the application.

Department page (/department/<department_id>):

From regular user's view:

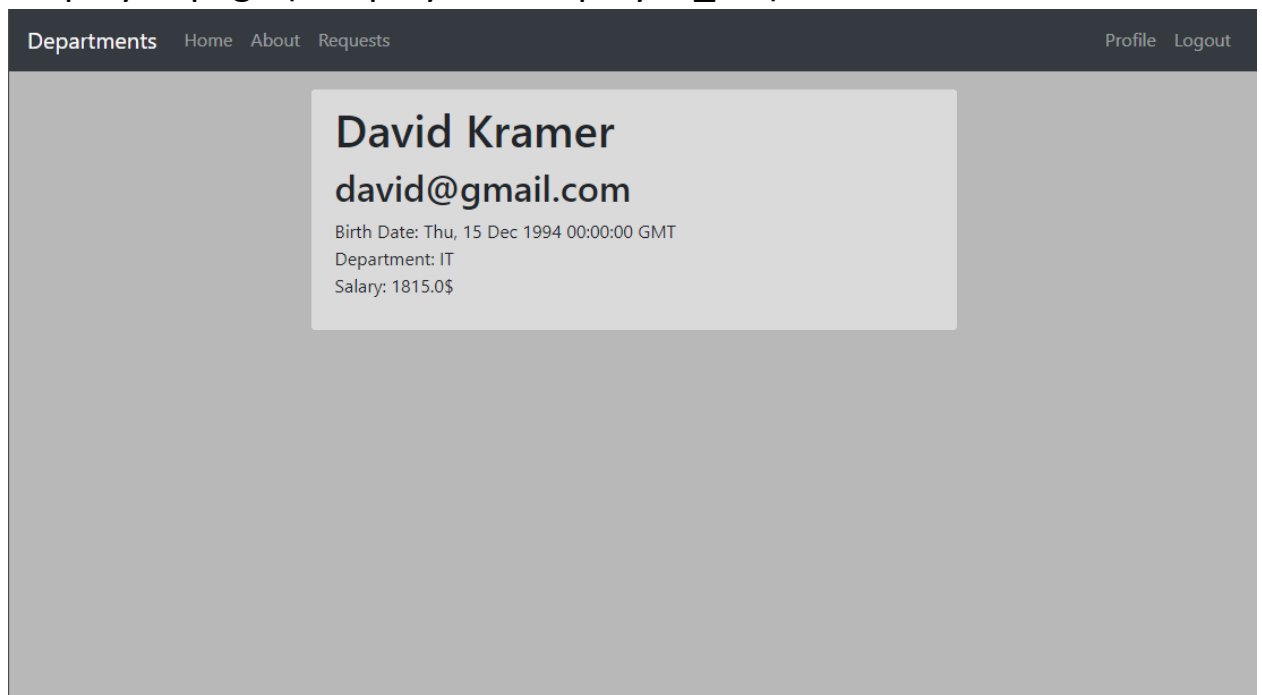


From admin's view:



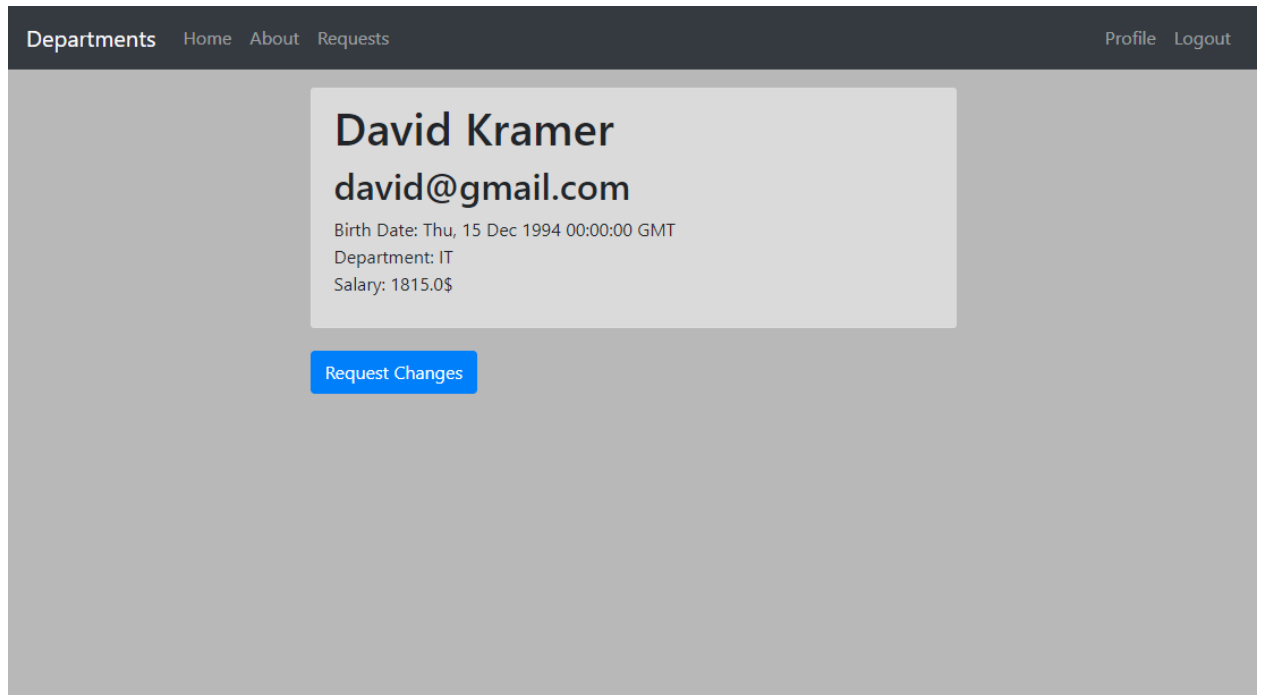
The purpose of this page is to list all employees in the department with department-id.

Employee page (/employee/<employee_id>):



The purpose of this page is to display information about the employee with employee-id.

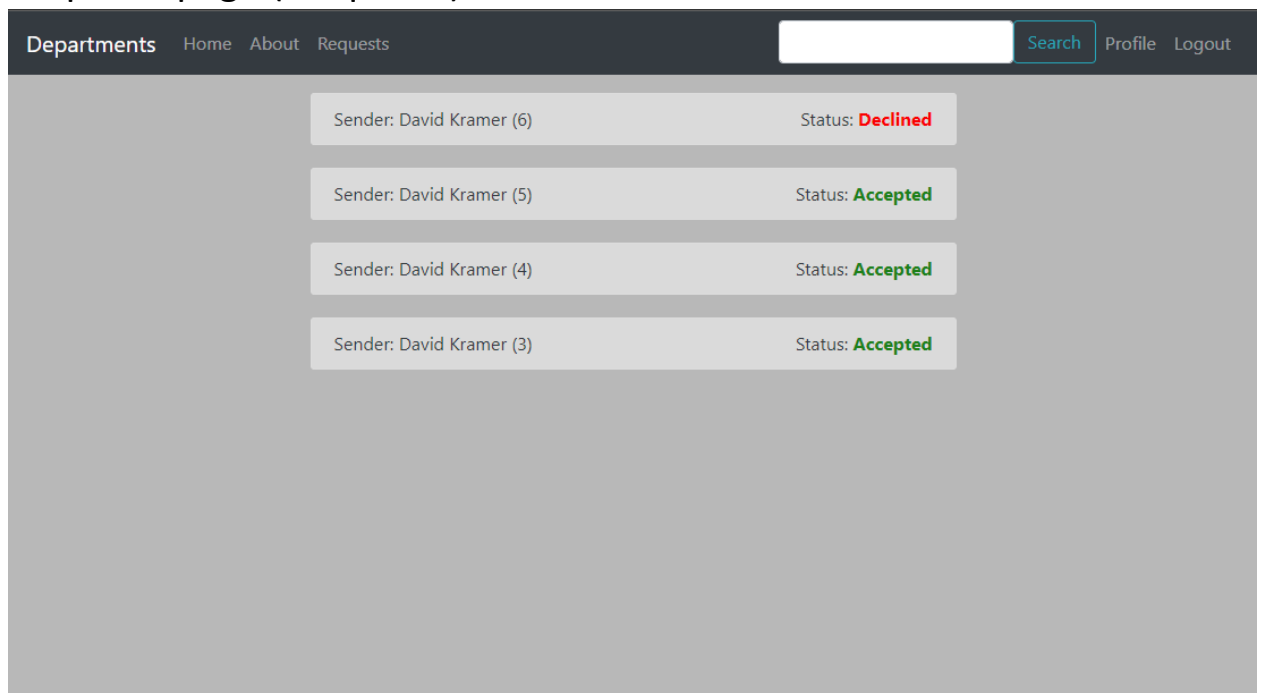
Profile page (/profile):



Admin's view of the page is the same, but the "Request Changes" button is absent (admins can't request changes for their profiles for the sake of common sense)

The purpose of this page is to display data about the current user.

Requests page (/requests):

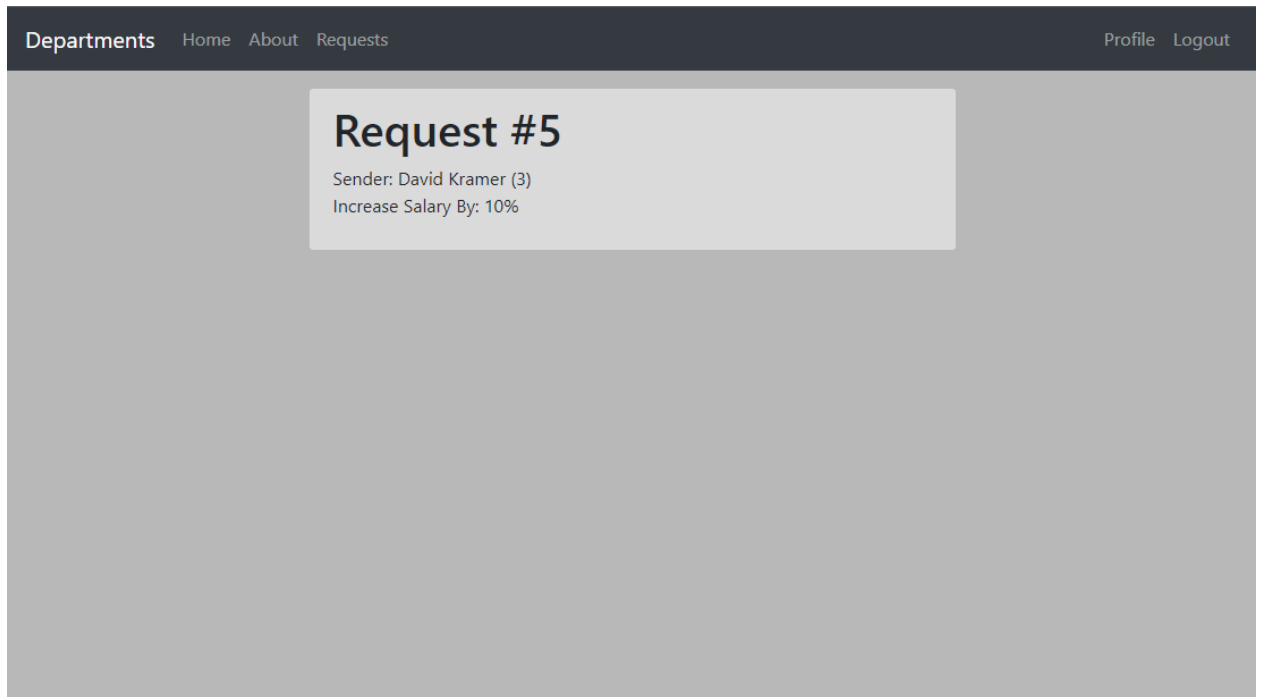


Admin's view of the page is slightly different. Only the requests with the status "Processing" are seen and requests are from all users.

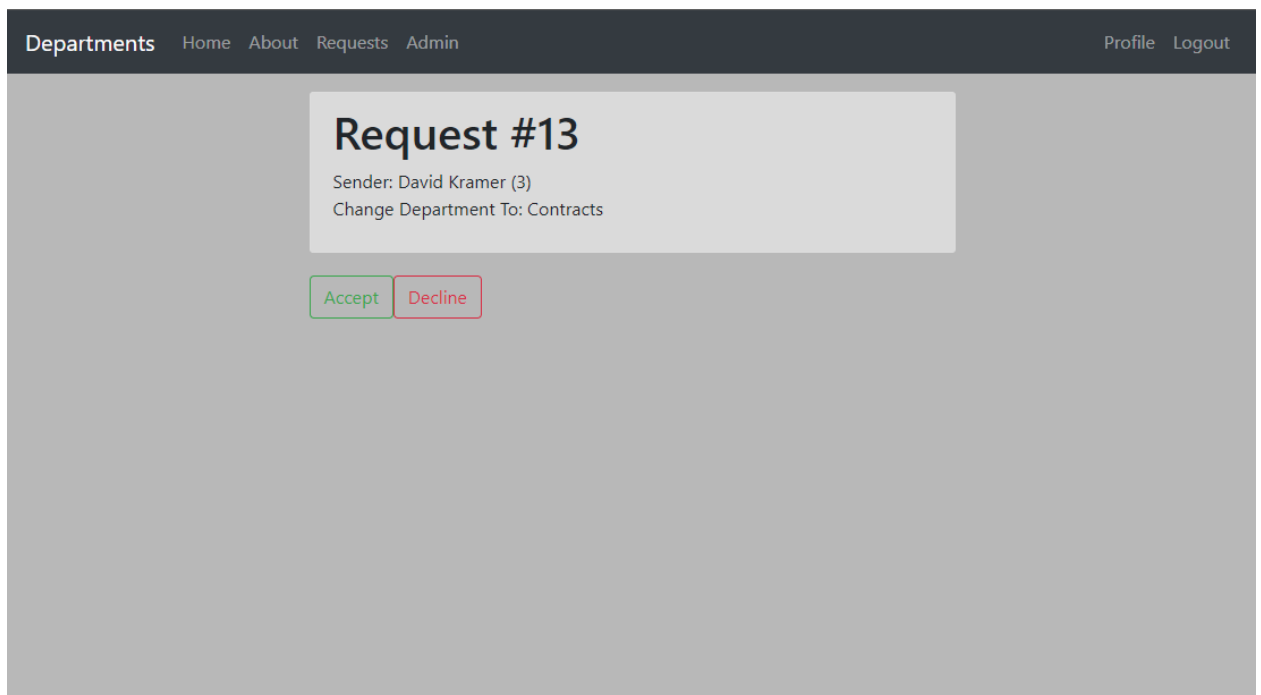
The purpose of this page is to list all requests made by the current user for regular user and to list all requests of all users with the status “Processing”.

Request page (/request/<request_id>):

From regular user’s view:



From admin’s view:



The purpose of this page is to display information about the request with request-id.

Send request page (/send-request):

Departments Home About Requests Profile Logout

Fill the request

Change My Department To

Increase My Salary By

Send Request

The purpose of this page is to let users request changes to admin(s).

Reset password page (email) (/reset-password):

Departments Home About Login Register

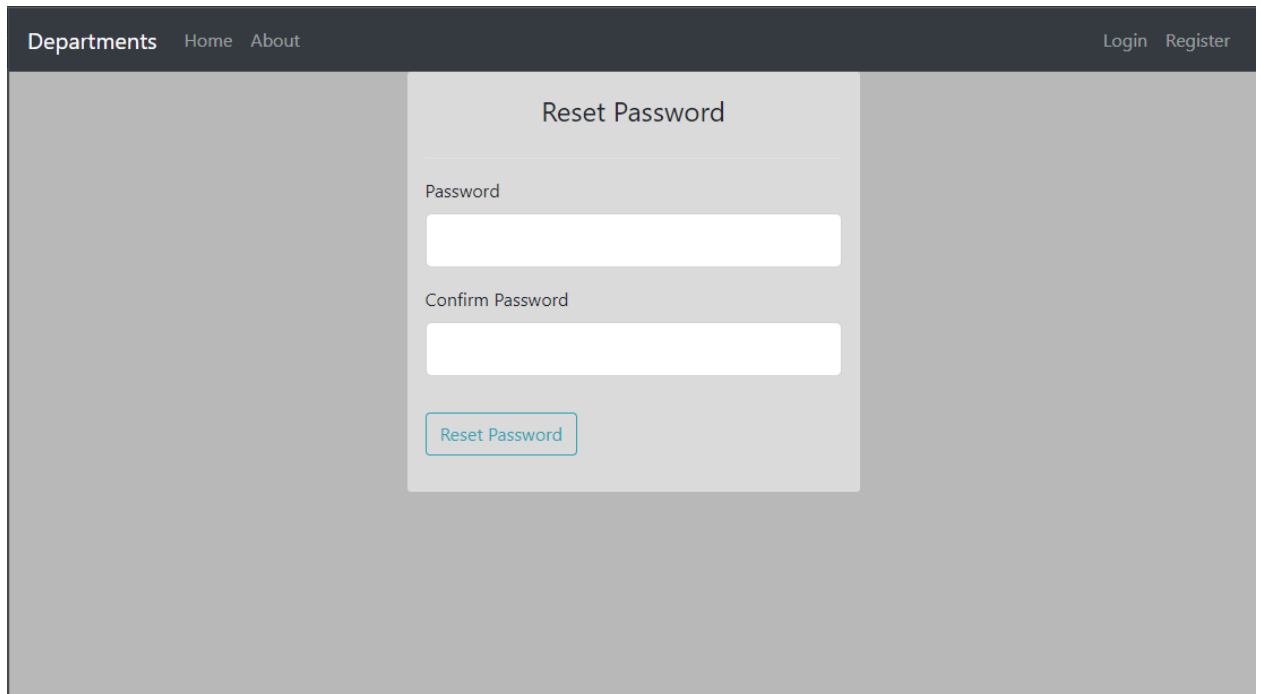
Reset Password

Email

Request Password Reset

The purpose of this page is to let users request change for their password. The request will be processed and the link with password change form will be sent to email entered by the user.

Reset password page (/reset-password/<reset_token>):



Departments Home About Login Register

Reset Password

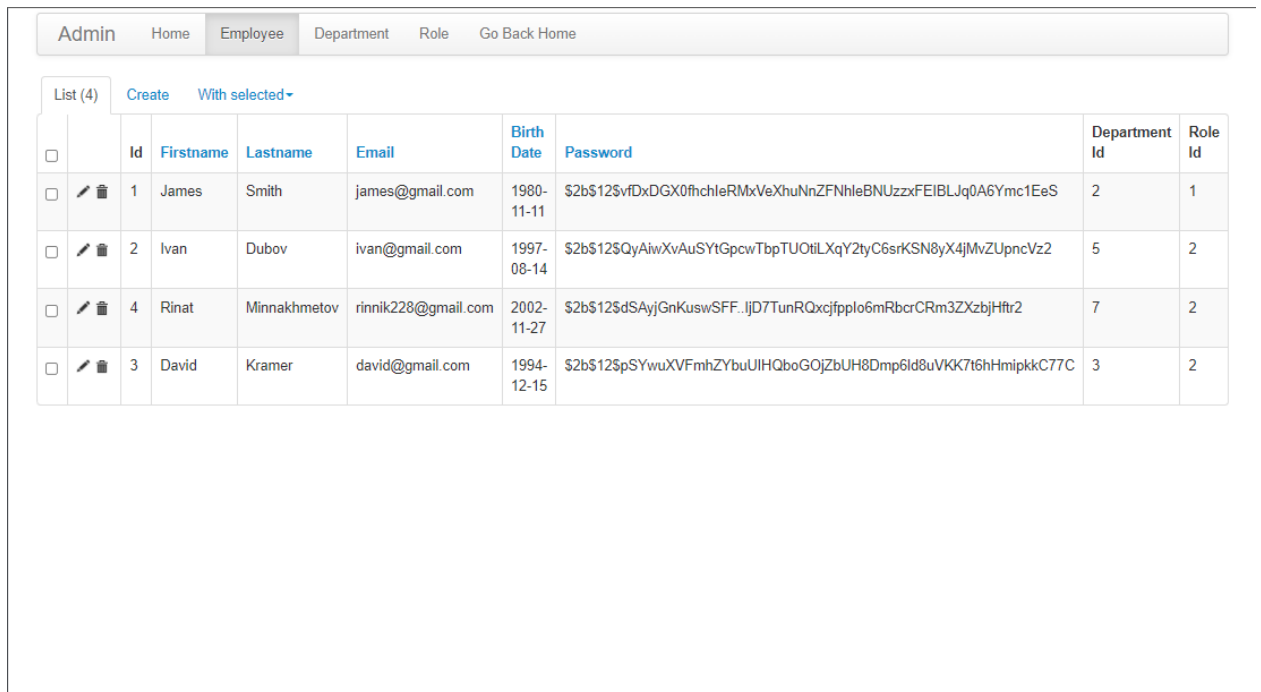
Password

Confirm Password

Reset Password









The purpose of this page is to let users change their passwords. To access the page you need to proceed via the link in an email sent to you as a reset-password-email, otherwise it will require a reset-token.

Admin panel (employee table) (/admin/employee/):

















Admin Home Employee Department Role Go Back Home

List (4) Create With selected

		Id	Firstname	Lastname	Email	Birth Date	Password	Department Id	Role Id
<input type="checkbox"/>	 	1	James	Smith	james@gmail.com	1980-11-11	\$2b\$12\$vdXDGX0fhchleRMxVeXhuNnZFNhleBNUzzxFEIBLJq0A6Ymc1EeS	2	1
<input type="checkbox"/>	 	2	Ivan	Dubov	ivan@gmail.com	1997-08-14	\$2b\$12\$QyAiwXvAuSYtGpcwTbpTUOtILXqY2tyC6srKSN8yX4jMvZUpncVz2	5	2
<input type="checkbox"/>	 	4	Rinat	Minnakhmetov	rinnik228@gmail.com	2002-11-27	\$2b\$12\$dSAyjGnKuswSFF..lJd7TunRQxcjfppl06mRbcrCRm3ZXzbjHftr2	7	2
<input type="checkbox"/>	 	3	David	Kramer	david@gmail.com	1994-12-15	\$2b\$12\$SpSYwuXVFmhZYbuUIHQboGOjZbUH8Dmp6ld8uVKK7t6hHmipkkC77C	3	2





The purpose of this page is to let admin(s) manage employee table.

Admin panel (department table) (/admin/department/):

Admin Home Employee Department Role Go Back Home					
List (7)		Create With selected ▾			
<input type="checkbox"/>		Id	Title	Salary	Employees
<input type="checkbox"/>	 	1	Finance	1600.0	
<input type="checkbox"/>	 	2	Human Resources	1700.0	<Employee 1>
<input type="checkbox"/>	 	3	Contracts	1650.0	<Employee 3>
<input type="checkbox"/>	 	4	Purchasing	1800.0	
<input type="checkbox"/>	 	5	Planning	1600.0	<Employee 2>
<input type="checkbox"/>	 	6	Technical Office	2000.0	
<input type="checkbox"/>	 	7	IT	2500.0	<Employee 4>

The purpose of this page is to let admin(s) manage department table.

Admin panel (role table) (/admin/role/):

Admin Home Employee Department Role Go Back Home				
List (2)		Create With selected ▾		
<input type="checkbox"/>		Id	Name	Employees
<input type="checkbox"/>	 	1	admin	<Employee 1>
<input type="checkbox"/>	 	2	regular	<Employee 2>, <Employee 4>, <Employee 3>

The purpose of this page is to let admin(s) manage role table.

Scheme of links of the application:

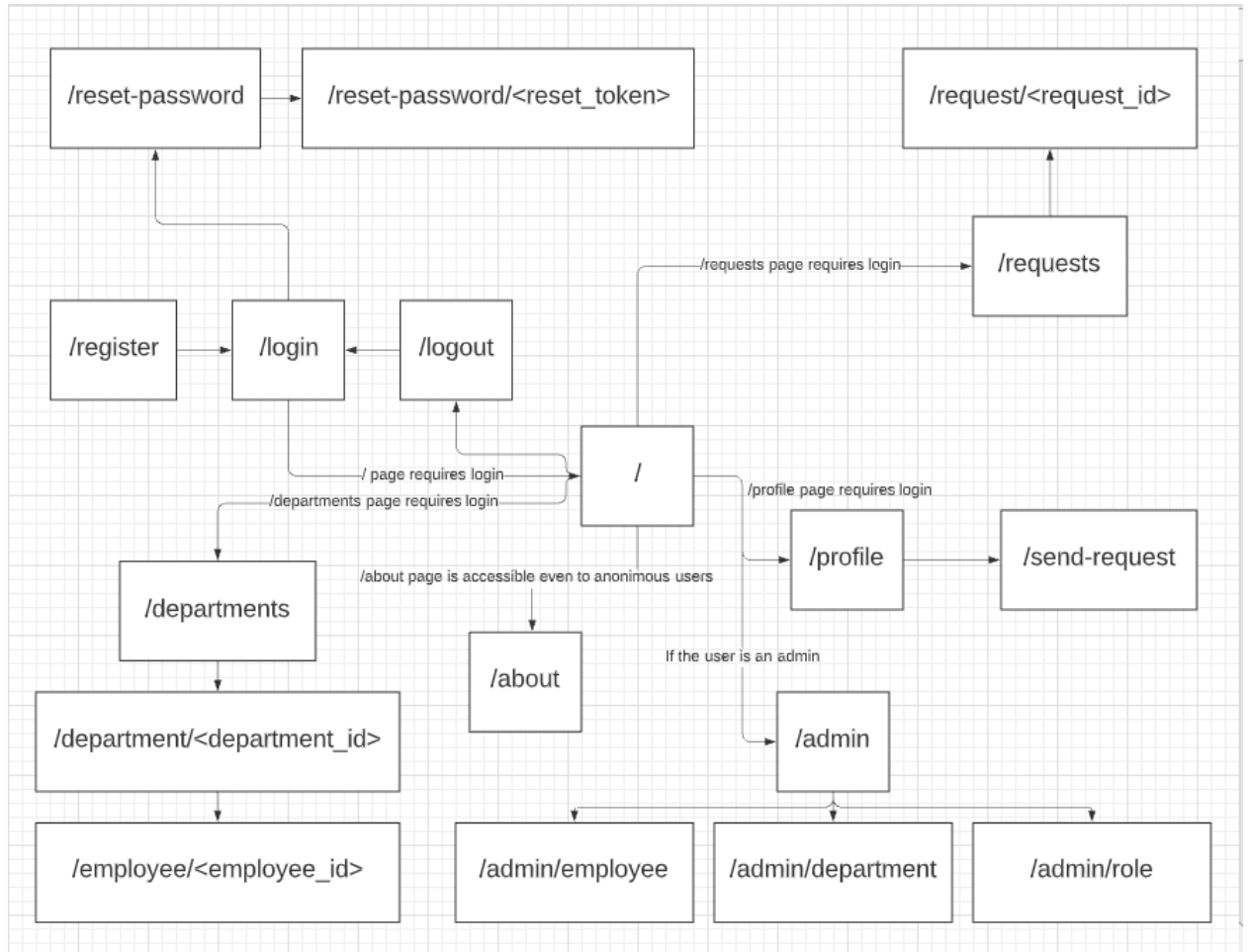


Diagram of the database:

