

# *Run My Errand*

Web Service Application

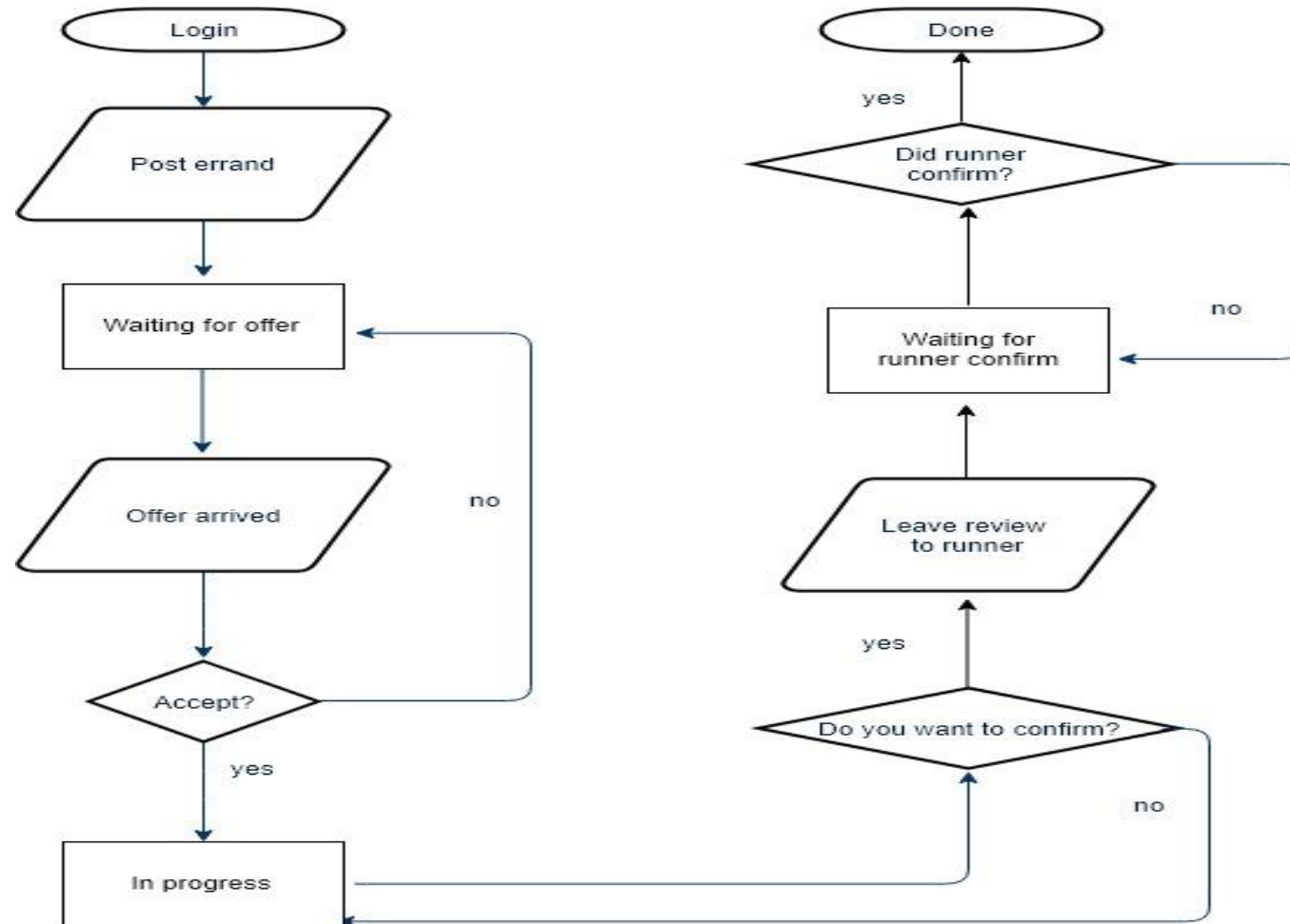
by

Mingyum Kim © 2019

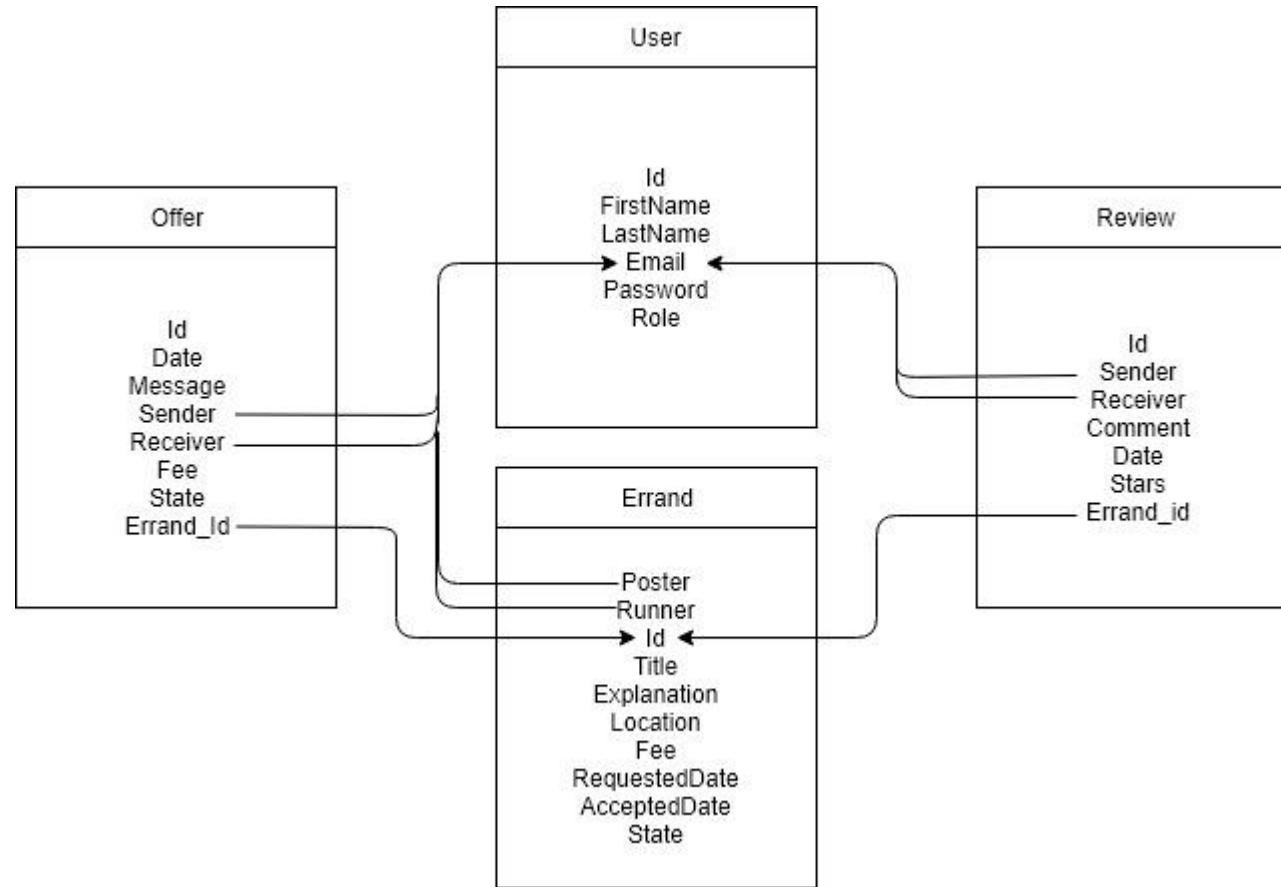
# Overview

- Application for posting and running errands
  - Such as “Please do grocery shopping for me. I will pay 10 €”
- User can be poster or runner (or both)
- Errand has states
  - New errand (Created but no offer accepted)
  - In progress (Poster accepted an offer)
  - One confirmed (Poster or runner has reported it done)
  - Done (Both have confirmed it done)

# Flow chart



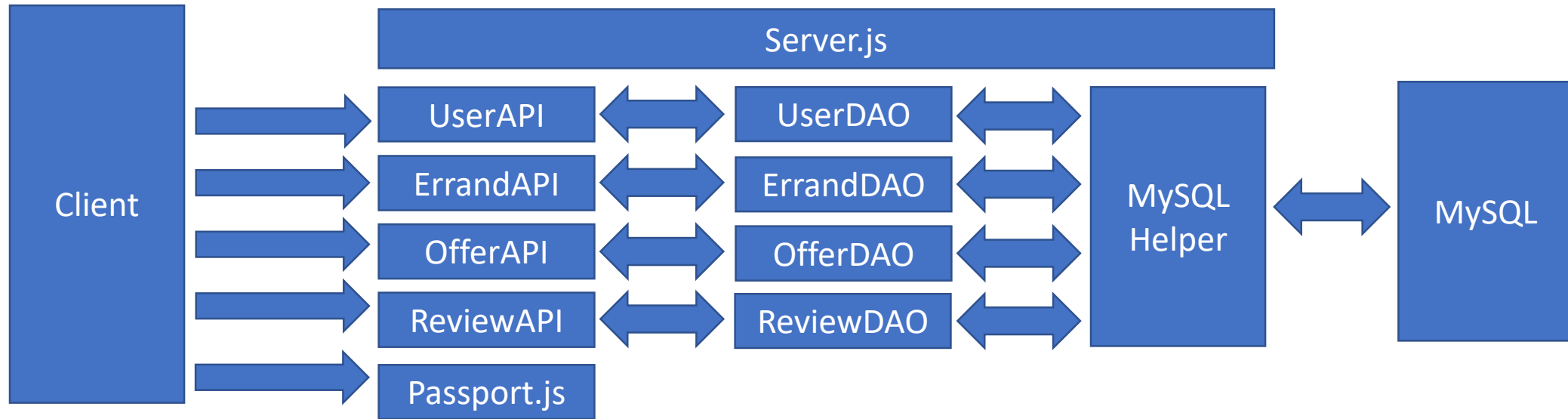
# Data model



# Architecture (Client)

- App
  - Route
    - Sign up
    - Login
    - Errands list
      - Errands
    - Create errand
    - My errands list
      - Errands I posted
      - Errands I run
    - Errand detail
    - User profile
    - Create offer
    - See offer
    - My account
- React router
- Ajax with Axios
- Css and Reactstrap

# Architecture (Server)



- Node-Express web server
- MySQL-Database
- Bcrypt, Passport.js

# Security vulnerabilities

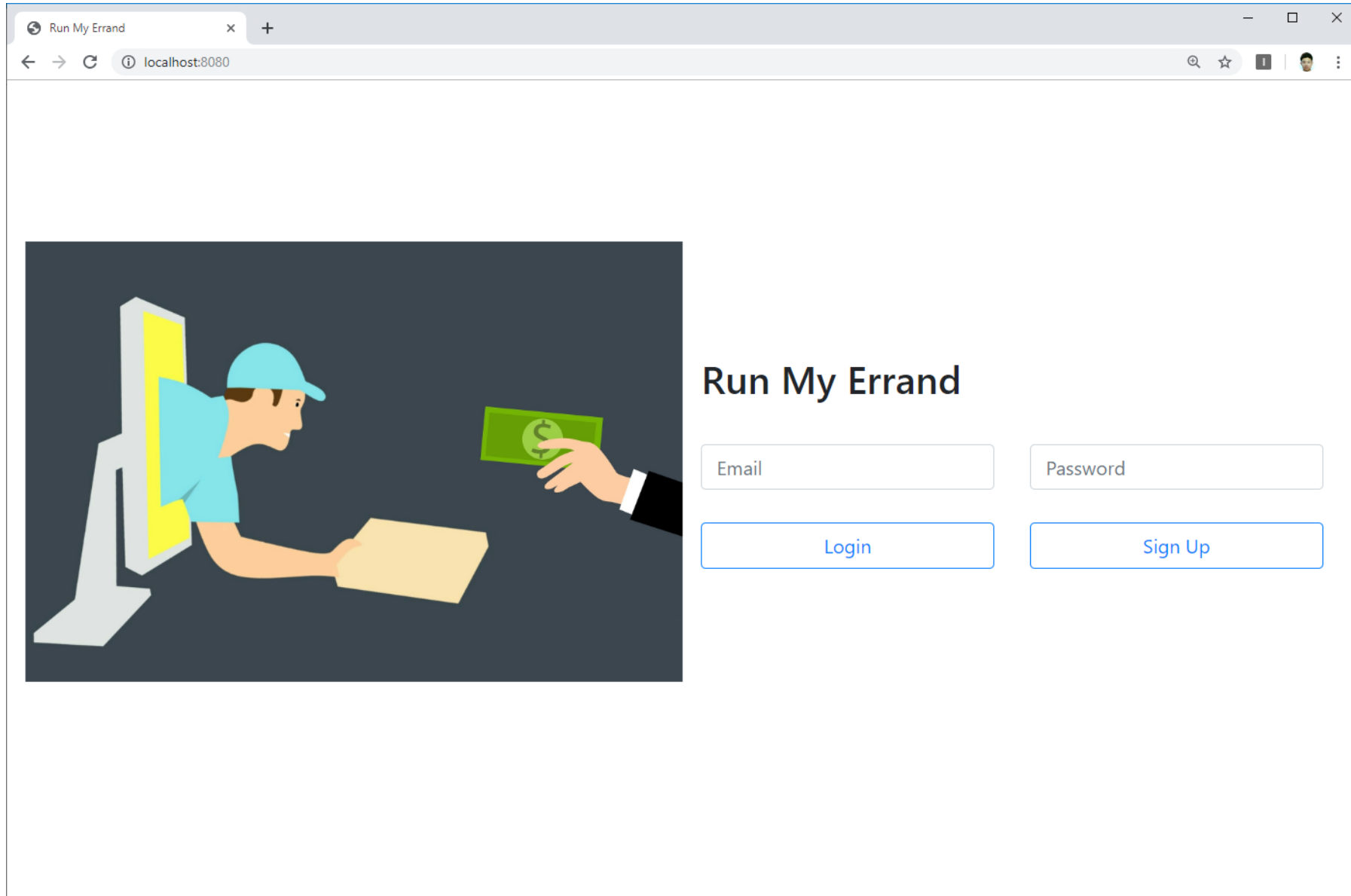
- Session theft
  - Not using HTTPS/SSL
- SQL Injection
  - Encrypt password, parameterized query through DAO
- Cross-site scripting
  - We are not generating HTML strings so XSS protection is the default.

# Future improvement

- Productization requirements
  - Input validation
  - User account activation by email
  - Payment service integration
  - Testing and verification (reliability, security, performance)
- Useful features
  - My pending offers
  - More admin features (e.g. modifying and deleting user data)
  - Improved searching and filtering




# Screen capture: Login screen



# Screen capture: Sign-up screen

Run My Errand x +

localhost:8080/signup



## Sign Up

Email

Password

FirstName

LastName

Phone

[Sign Up](#) [Back](#)

# Screen capture: List of available errands to run

Run My Errand

localhost:8080/errands-list

Errand List

Add keyword to filter errands based on title

My Errands

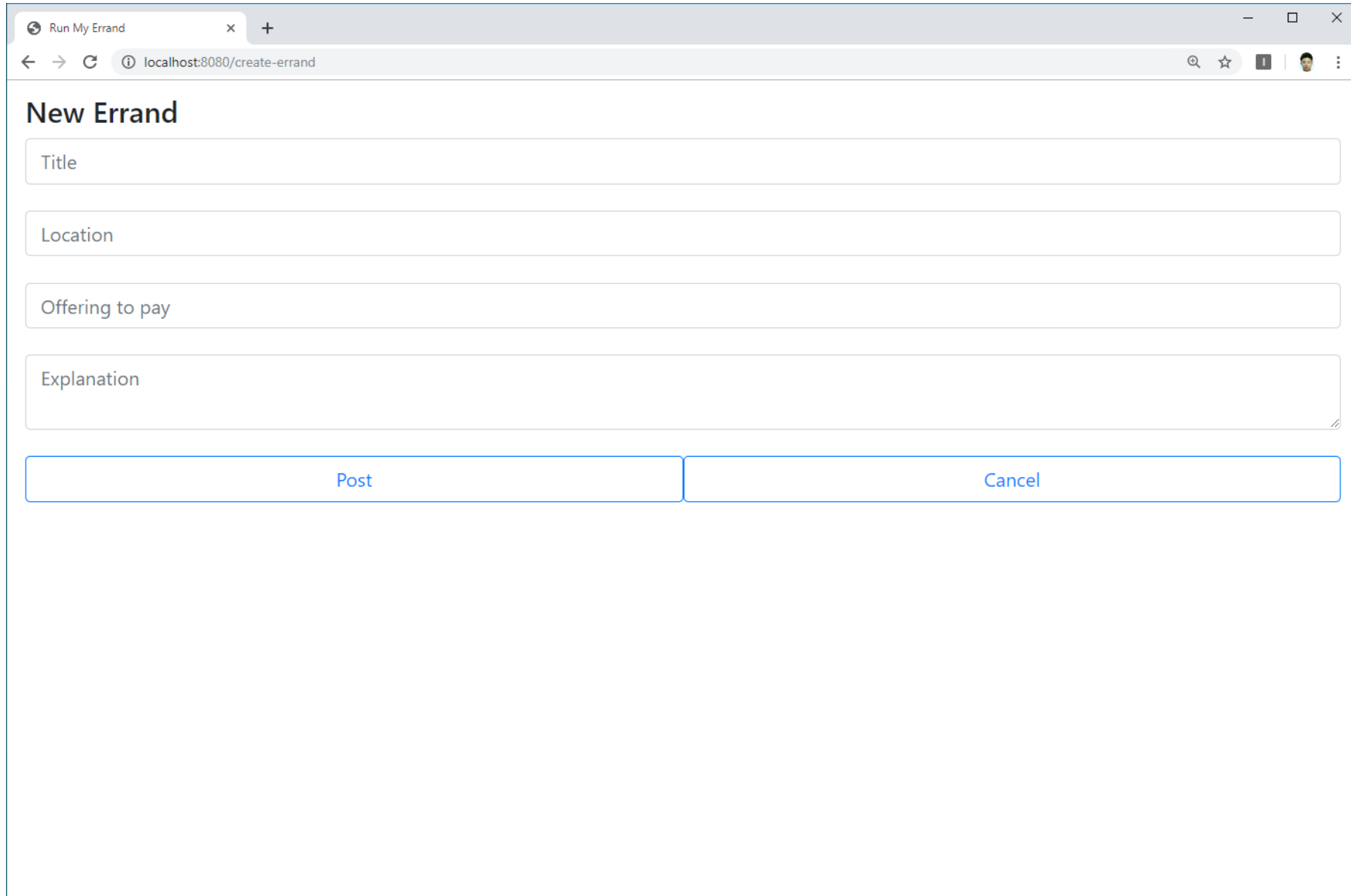
My Account

Logout

Poster	Title	Location	State	Date	Pay	
<a href="#">mingyumkim93@gmail.com</a>	Grocery delivery	Kivenlahti	Waiting for acceptance	8/29/2019 10:08:09 PM	10€	<a href="#">Details</a>
<a href="#">peter@poster.com</a>	Car cleaning	Matinkylä	In progress	8/29/2019 10:29:54 PM	15€	<a href="#">Modify</a>
<a href="#">mingyumkim93@gmail.com</a>	Dog walking	Kivenlahti	Waiting for acceptance	8/29/2019 10:35:20 PM	15€	<a href="#">Details</a>
<a href="#">peter@poster.com</a>	Car driver	Matinkylä	Waiting for acceptance	8/29/2019 10:41:44 PM	30€	<a href="#">Modify</a>

New Errand

# Screen capture: Creating a new errand



The screenshot shows a web browser window with the title 'Run My Errand'. The address bar displays 'localhost:8080/create-errand'. The page content is titled 'New Errand' and features a form with four input fields: 'Title', 'Location', 'Offering to pay', and 'Explanation'. Below the form are two buttons: 'Post' and 'Cancel'.

Run My Errand

localhost:8080/create-errand

## New Errand

Title

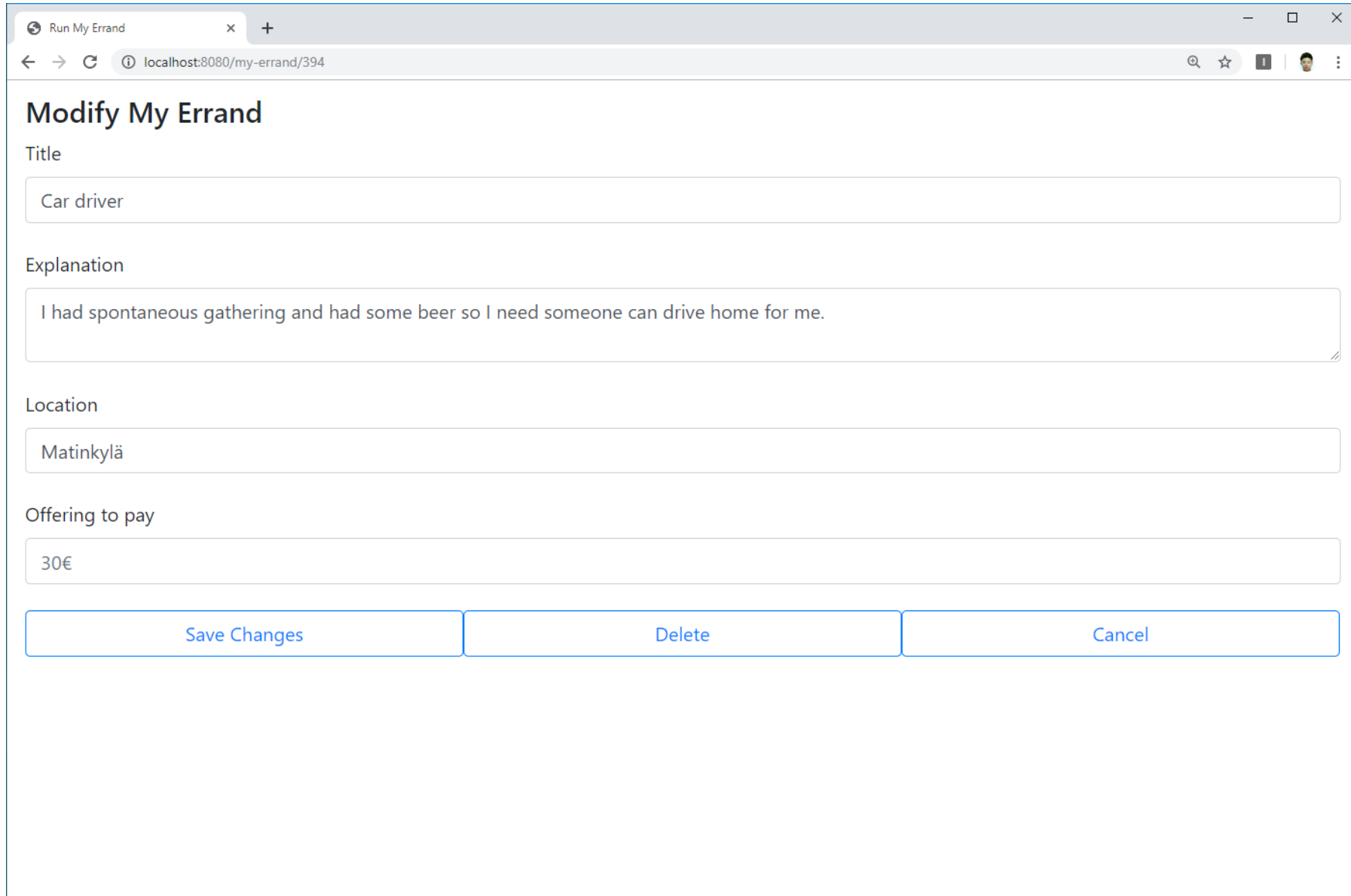
Location

Offering to pay

Explanation

Post Cancel

# Screen capture: Modifying an errand



The screenshot shows a web browser window with the title 'Run My Errand'. The address bar displays 'localhost:8080/my-errand/394'. The main content area is titled 'Modify My Errand' and contains four form fields: 'Title' with the value 'Car driver', 'Explanation' with the text 'I had spontaneous gathering and had some beer so I need someone can drive home for me.', 'Location' with the value 'Matinkylä', and 'Offering to pay' with the value '30€'. At the bottom, there are three buttons: 'Save Changes', 'Delete', and 'Cancel'.

Run My Errand

localhost:8080/my-errand/394

## Modify My Errand

Title

Car driver

Explanation

I had spontaneous gathering and had some beer so I need someone can drive home for me.

Location

Matinkylä

Offering to pay

30€

Save Changes Delete Cancel

# Screen capture: Details of an errand

Run My Errand

localhost:8080/errand/393

Errand Detail

Name

Mingyum Kim

Email

mingyumkim93@gmail.com

Phone

401356668

Title

Dog walking

Explanation

I'm looking for someone who can walk my dog for tomorrow morning and evening. It's small dog that loves people.

Offering to pay

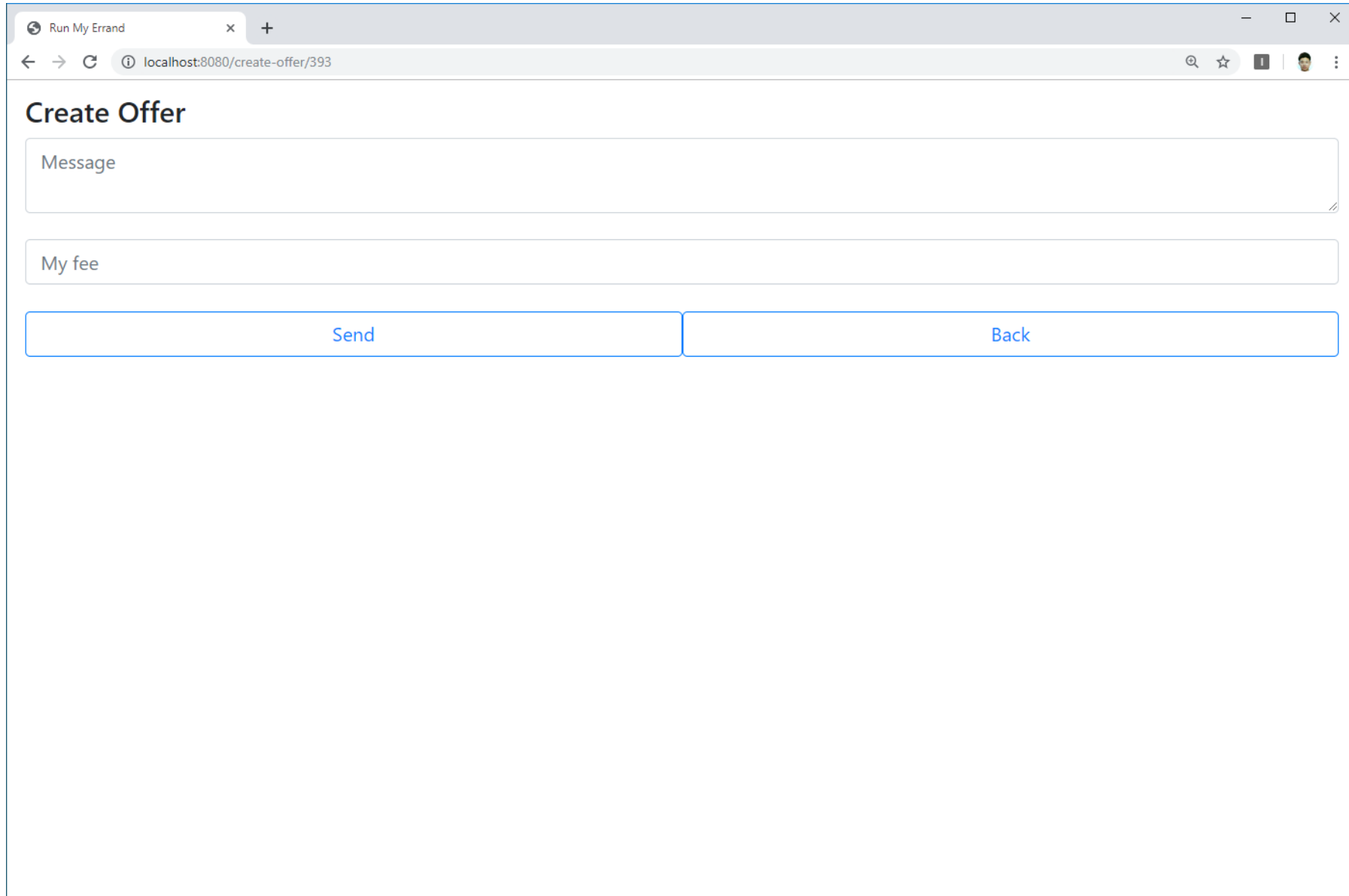
15€

Create Offer

Poster Profile

Back to list

# Screen capture: Creating a new offer



The screenshot shows a web browser window with the title 'Run My Errand'. The address bar displays 'localhost:8080/create-offer/393'. The page content is titled 'Create Offer' and contains two text input fields: 'Message' and 'My fee'. Below these fields are two buttons: 'Send' and 'Back'.

Run My Errand

localhost:8080/create-offer/393

## Create Offer

Message

My fee

Send Back

# Screen capture: Offers to run your errand

Run My Errand

localhost:8080/see-offers/394

## Offers to run your errand

**Title :** Car driver  
**Explanation :** I had spontaneous gathering and had some beer so I need someone can drive home for me.  
**Offering to pay :** 30€

From	Message	Fee	When	
<a href="#">robert@runner.com</a>	I can do this.	40€	9/2/2019 9:12:41 PM	<a href="#">Accept</a>
<a href="#">mingyumkim93@gmail.com</a>	Hi. Contact me 040 135 6668. I drive very well!	45€	9/3/2019 4:09:48 PM	<a href="#">Accept</a>

[Back](#)



# Screen capture: List of my errands

Run My Errand

localhost:8080/my-errands-list

## My Errands

Errands you posted

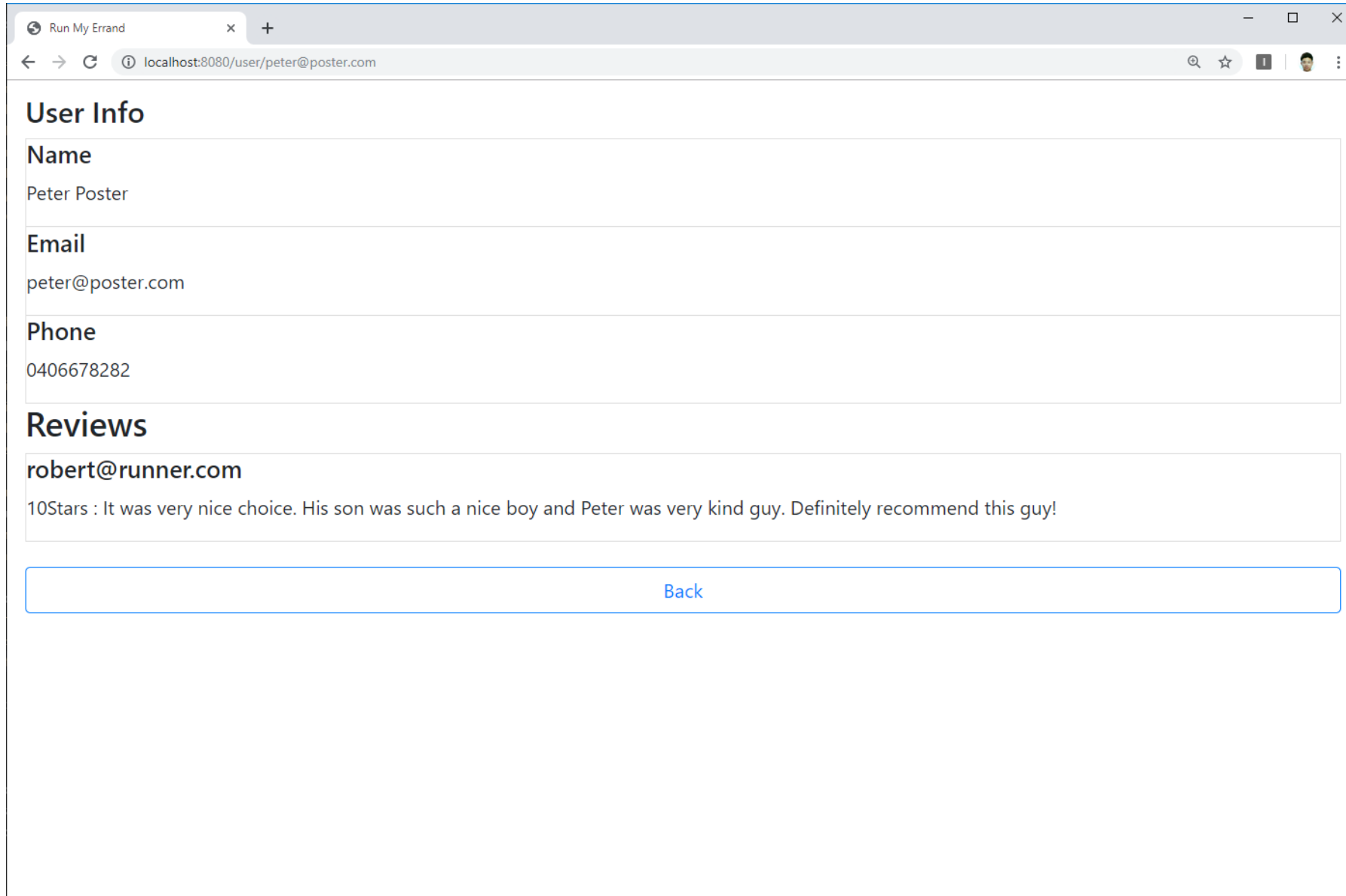
Title	Explanation	Pay	State	Runner	Posted	Accepted	Location	
Babysitting	My son is 2 years old and I need babysitting on Saturday evening, 1st of September. He is very nice behaving boy.	50€	Done	robert@runner.com	8/29/2019 10:25:29 PM	9/2/2019 11:36:02 PM	Mätinkylä	<a href="#">Modify</a>
Car cleaning	I'm looking for someone to wash my car. I have all the necessary stuffs.	15€	In progress	robert@runner.com	8/29/2019 10:29:54 PM	9/3/2019 3:17:34 PM	Matinkylä	<a href="#">Modify</a>
			<a href="#">Approve</a>					
			<a href="#">Terminate</a>					
Car driver	I had spontaneous gathering and had some beer so I need someone can drive home for me.	30€	<a href="#">See offers (2)</a>		8/29/2019 10:41:44 PM		Matinkylä	<a href="#">Modify</a>

Errands you are running / Errands you have run

Title	Explanation	Pay	State	Poster	Posted	Accepted	Location
-------	-------------	-----	-------	--------	--------	----------	----------

[Back To List](#)

# Screen capture: User information



The screenshot shows a web browser window with the title "Run My Errand". The address bar displays "localhost:8080/user/peter@poster.com". The page content is divided into two main sections: "User Info" and "Reviews".

**User Info**

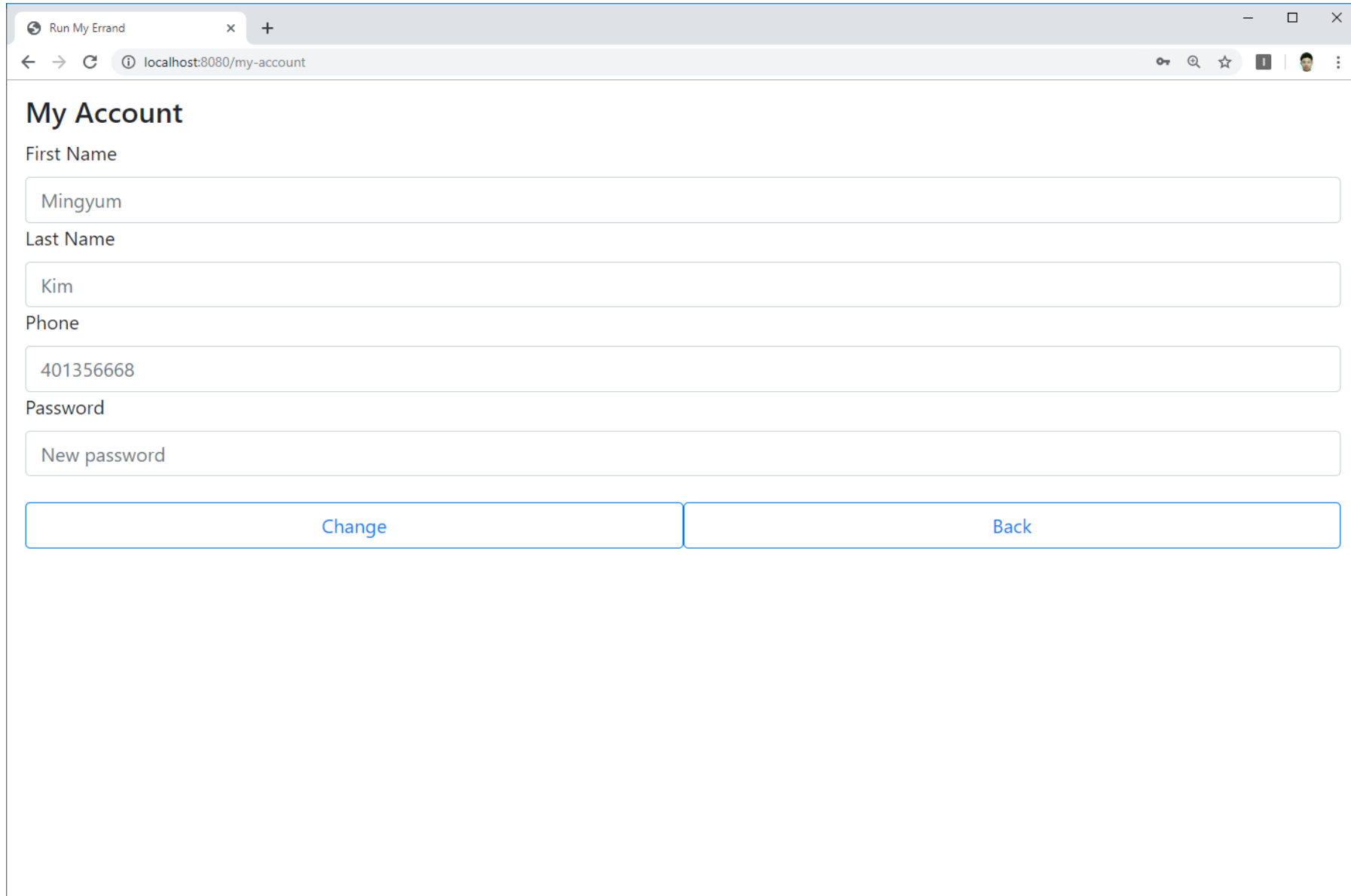
<b>Name</b>	Peter Poster
<b>Email</b>	peter@poster.com
<b>Phone</b>	0406678282

**Reviews**

<b>robert@runner.com</b>	10Stars : It was very nice choice. His son was such a nice boy and Peter was very kind guy. Definitely recommend this guy!
--------------------------	--

At the bottom of the page, there is a blue button labeled "Back".

# Screen capture: Editing account information



The screenshot shows a web browser window with the title 'Run My Errand'. The address bar displays 'localhost:8080/my-account'. The page content is titled 'My Account' and contains four text input fields for editing account information: 'First Name' (containing 'Mingyum'), 'Last Name' (containing 'Kim'), 'Phone' (containing '401356668'), and 'Password' (containing 'New password'). At the bottom of the form are two buttons: 'Change' and 'Back'.

Run My Errand

localhost:8080/my-account

## My Account

First Name

Last Name

Phone

Password

[Change](#) [Back](#)