

Senior Project Fall 2018

Vocabulary in Reading Study 4.0

Student: Monica M. Rodriguez, Florida International University

Professor: Masoud Sadjadi, Florida International University

Mentor: Seyedjafar Ehsanzadehsorati



Problem

The user of Vocabulary in Reading Study, VIRS web app is not able to change his password when is logged in his account once the account was created.

The user of VIRS web app cannot reset the password of his account in case he forgot it, so he is not able to login in his account.

Solution

Create an intuitive and simple user interface for:

The user can change the password once He is logged in the account by using his current password.

The user can reset the password if He cannot remember it by using his username or email. The user will receive a link by email to reset password.

Current System

VIRS is a web app to facilitate learning of new languages through analysis of text.

Designed to be simple and to have an intuitive user interface.

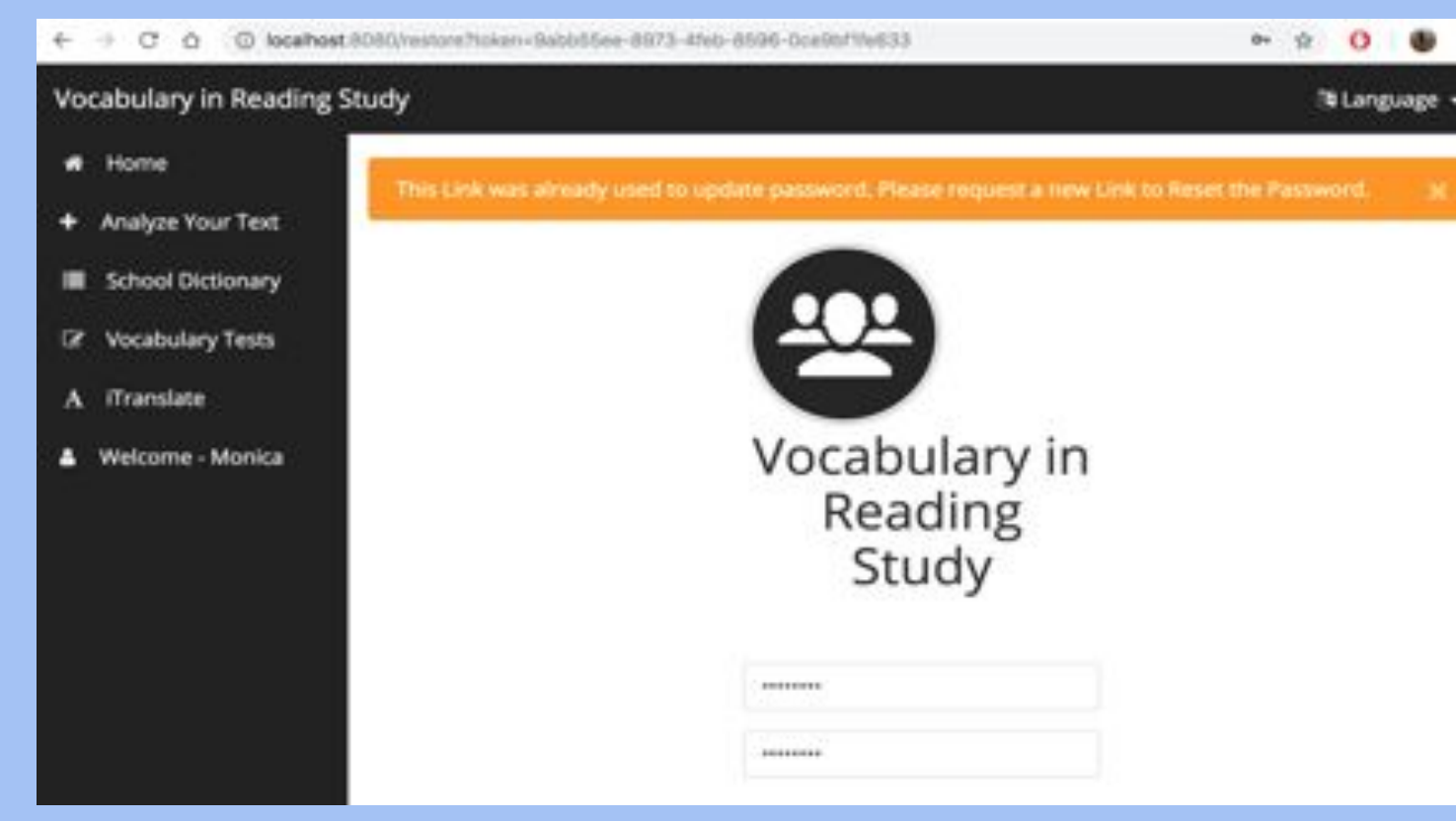
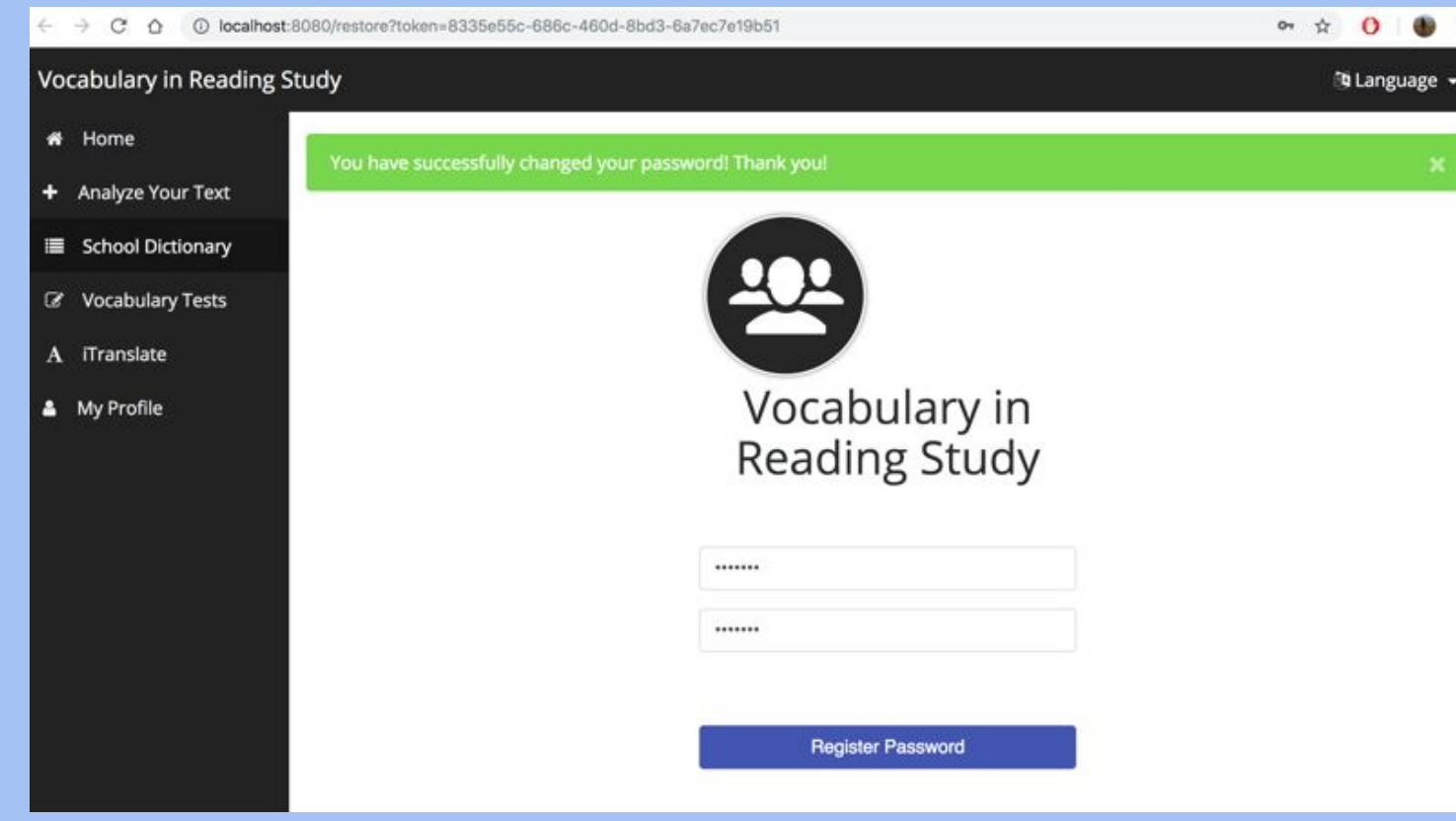
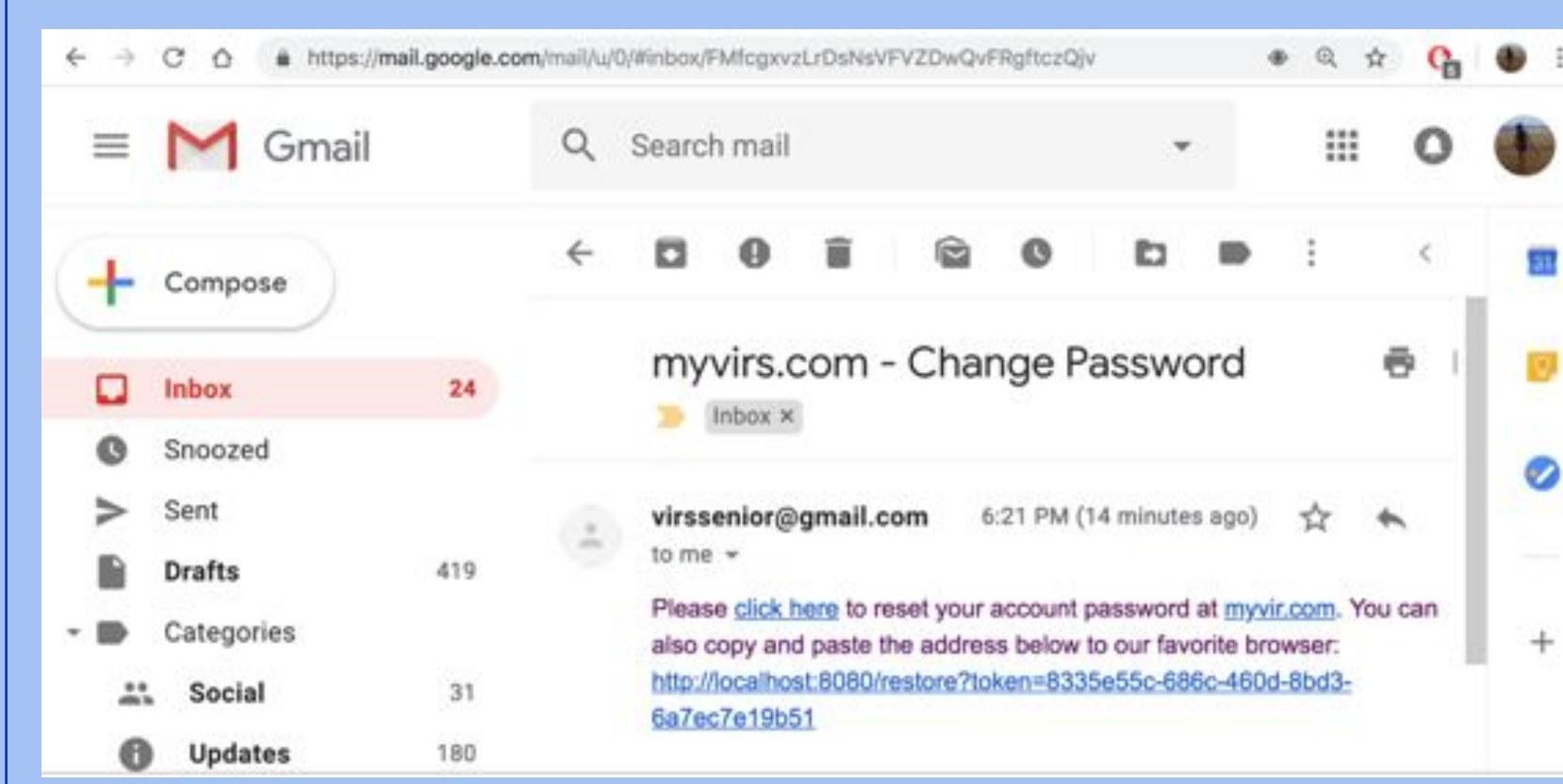
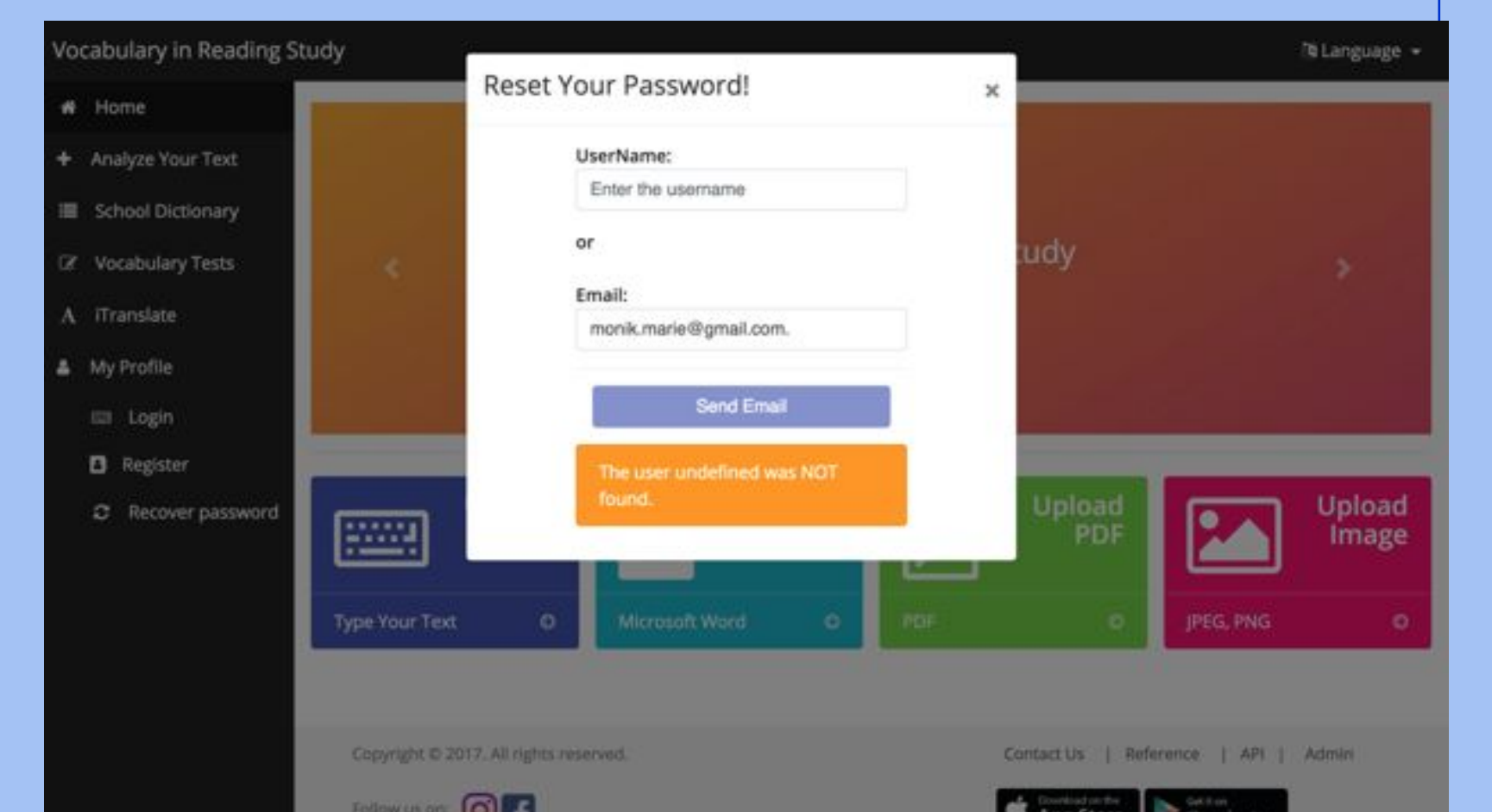
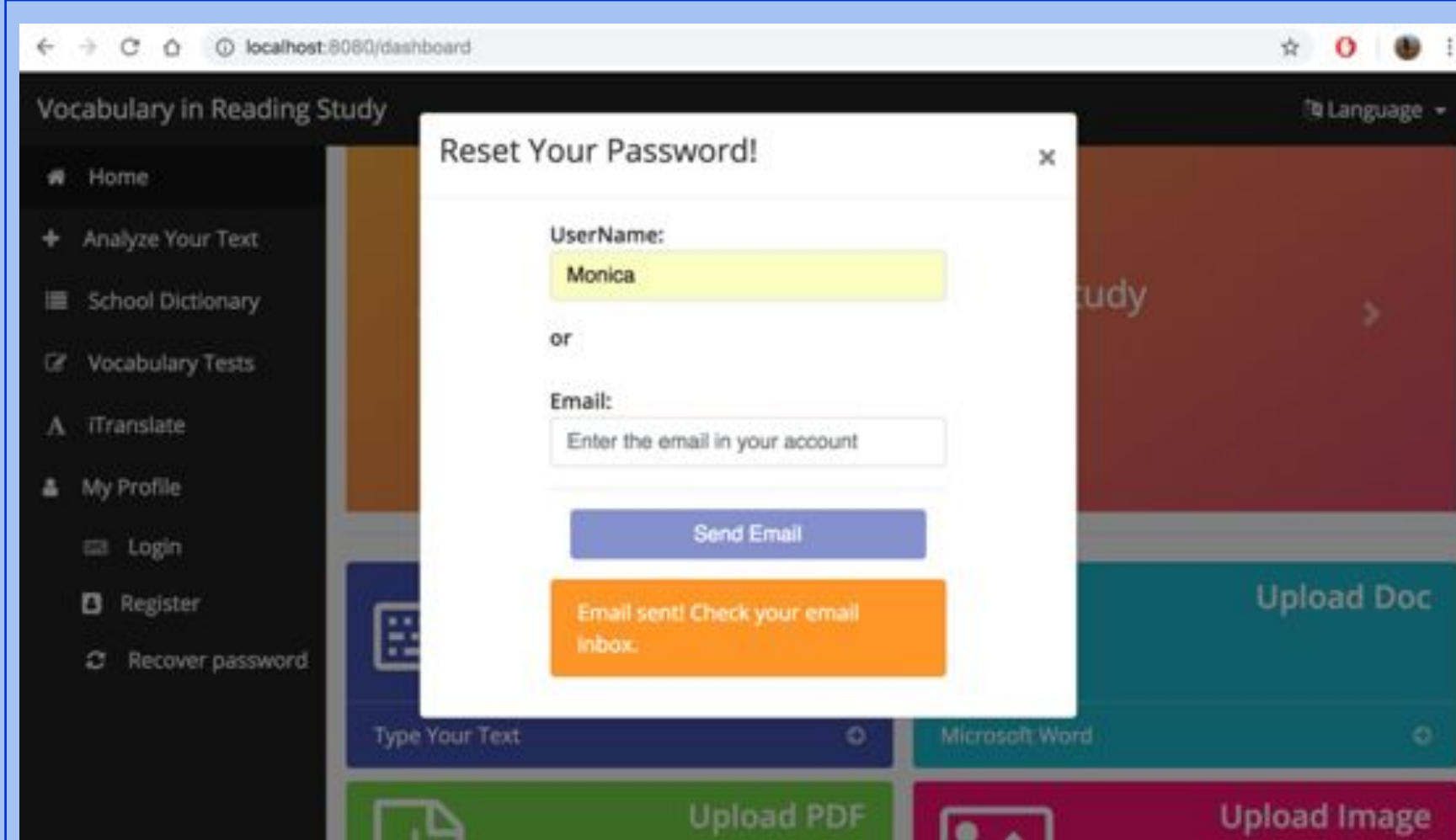
Change the password for the user account is not implemented.

Reset forgot password for the user account is not implemented.

Screenshots

Token Recovery Table

id	email	token	user_id
2	monik.marie80@gmail.com	69e100de-fbf4-45e3-9d9d-d10dc7a27726	3
3	monicamrh80@yahoo.es	8da60433-542a-410d-a0f4-10b254599caf	5
4	clarica2014@gmail.com	00c3aea8-4e5f-44fc-8a7d-2aa48ec2a845	2



Requirements

User needs a working email account.

User's account security must not be compromised.

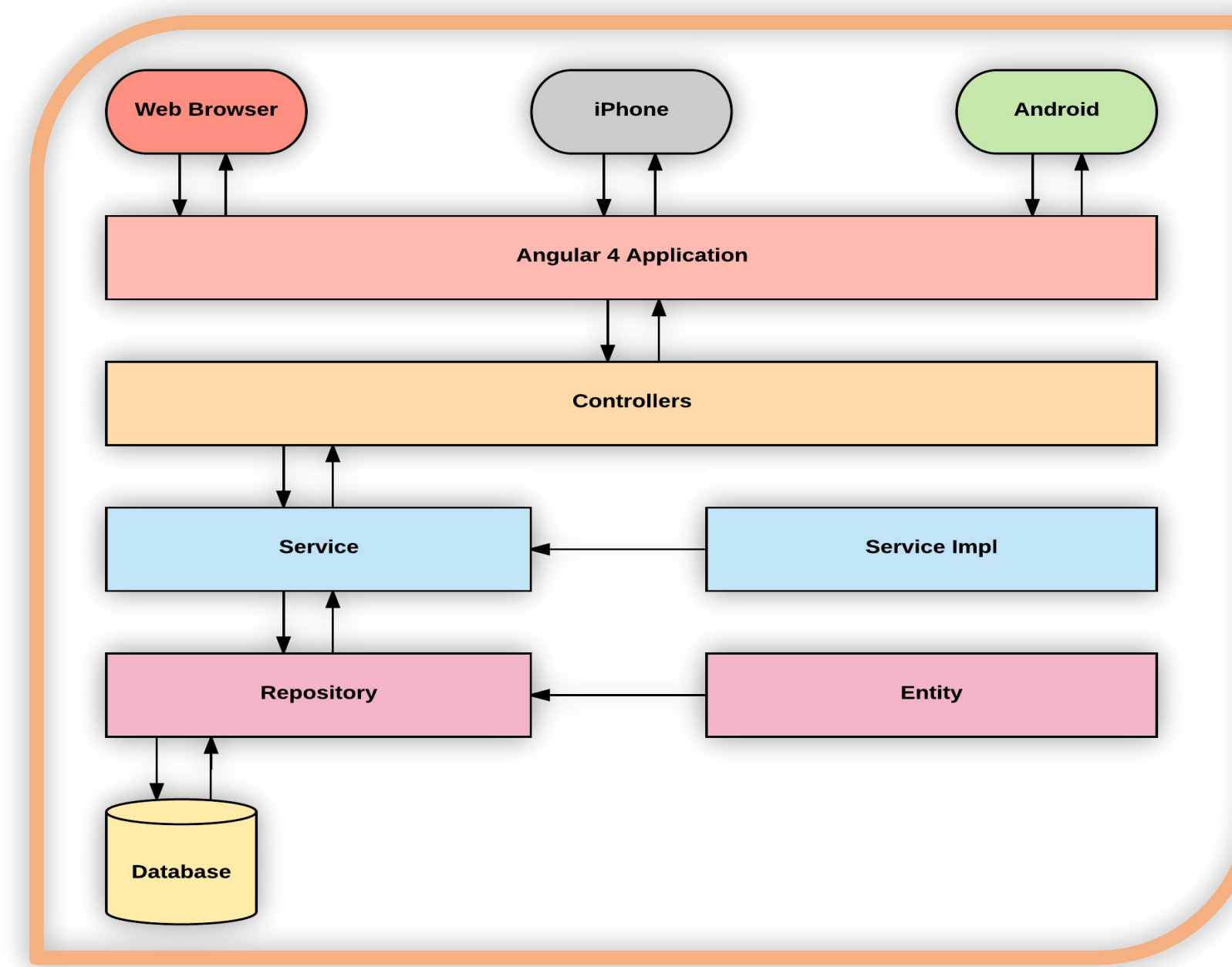
The token generated must be secure, unique and deleted once is used.

User must be able to reset password by using the username or the email.

The user should be informed throughout the whole process.

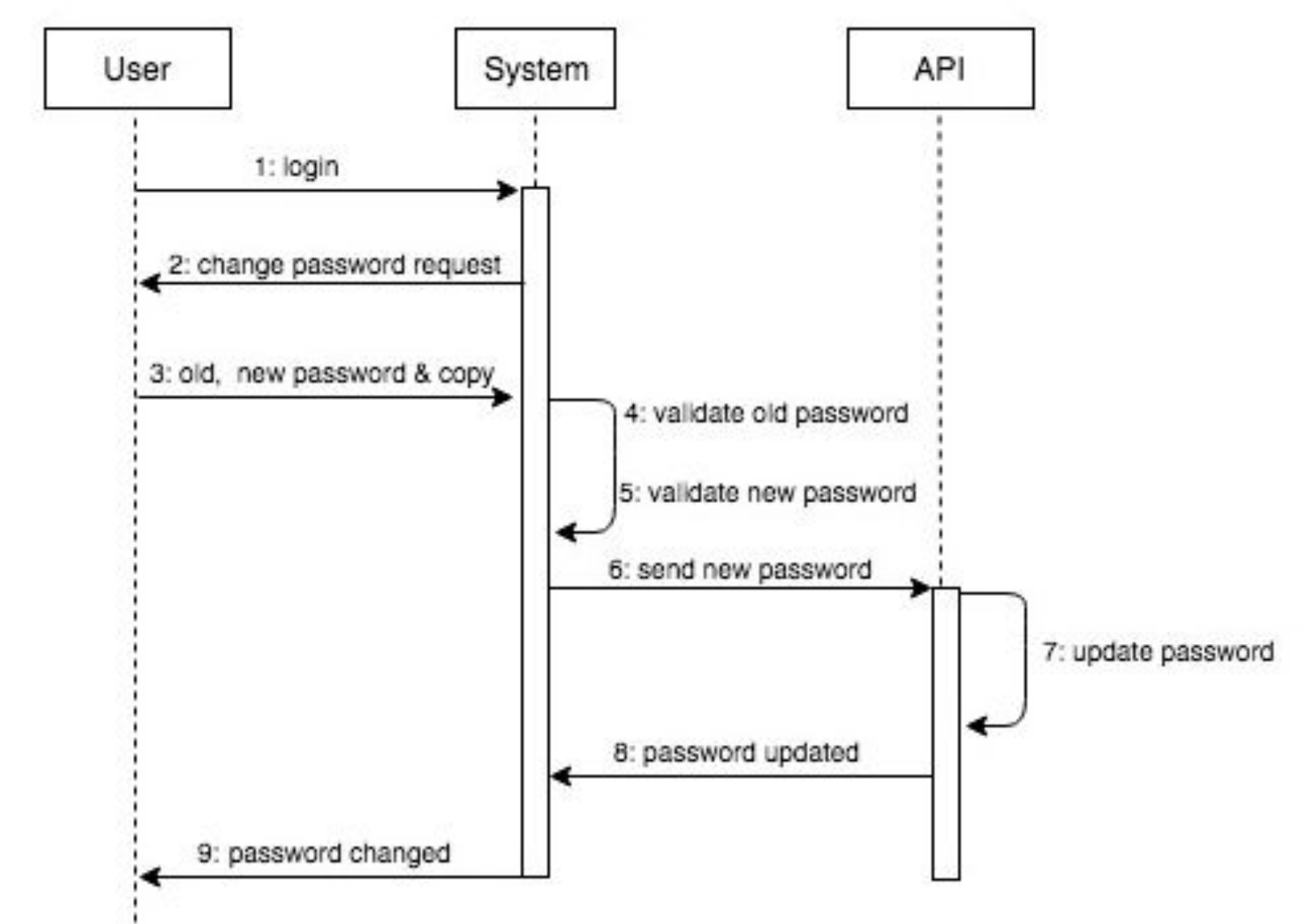
The process must be simple and intuitive.

System Design & Implementation

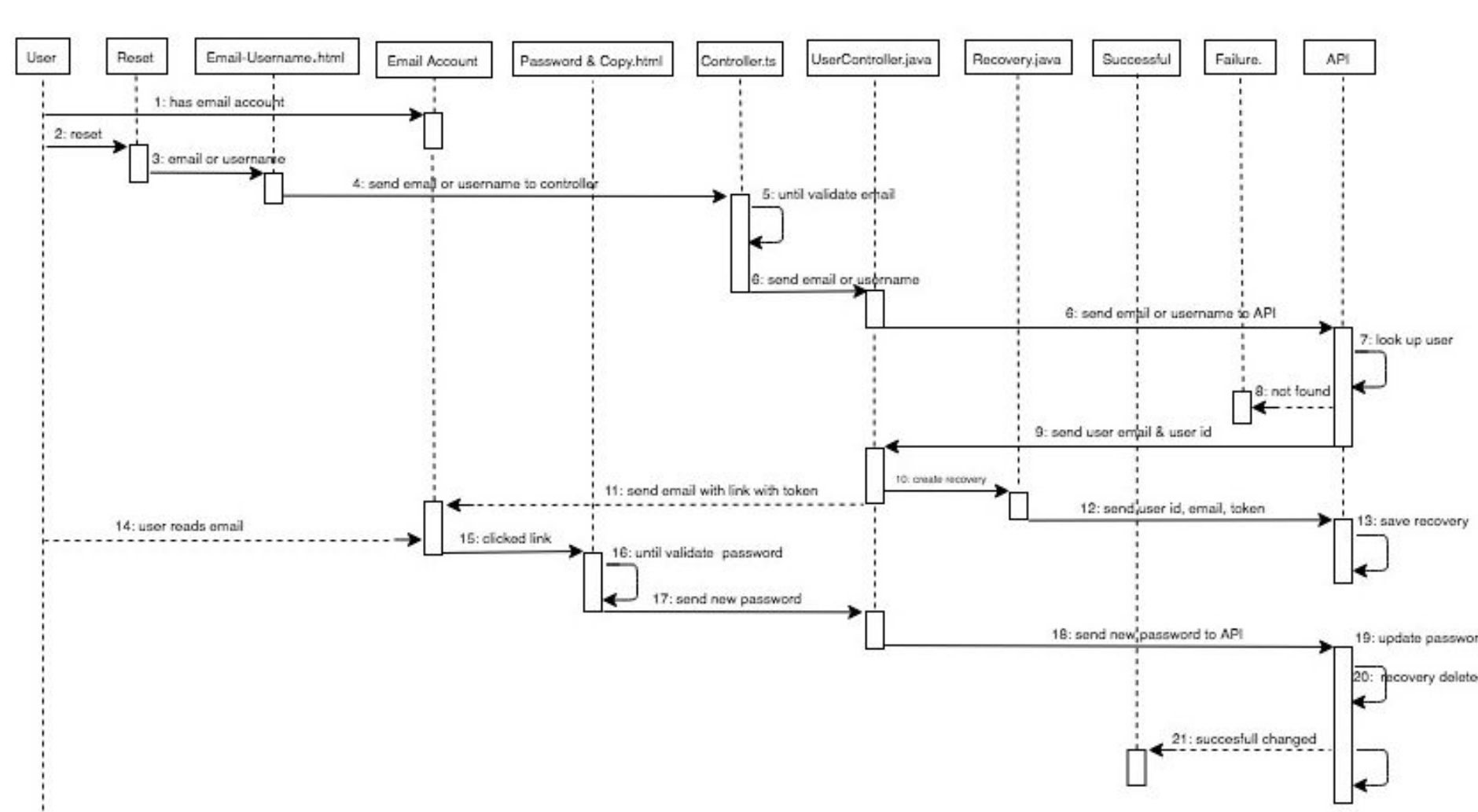


Frontend: Angular TypeScript, Bootstrap, CSS, HTML5.
Backend: Java Sprint Boot and SendGrid Mail Sender.
API: MySQL.

Change password Sequence Diagram



Reset password Sequence Diagram



Verification & Testing

Spring MVC Test and Mockito were used for testing. Mock classes were created to enable basic unit testing of the classes and methods.

Test case ID: virs-55, Sunny Day

Description: deletes recovery

Pre-condition: the user has a recovery.

Expected Results: the recovery is deleted.

Actual: the recovery was deleted.

Status (Fail/Pass): pass.

Summary

User can reset forgot password by enter either the username or the email.

The user receives an email with a link to click that display a page to enter the new password and reset the password.

The user can change his password once is logged in the account using his current password.

The implementation is simple, secure and user friendly.

Acknowledgement

The material presented in this poster is based upon the work supported by : Masoud Sadjadi, Yuzhou Feng, I am thankful to the help I received from my team: Samantha Magrans, Jessica Fernandez-Rubio, Chelsea Benony, Pablo Arista, Taufiq Islam.