

Team Big Data

U-tification

Low Level Design Registration

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Git Repository: <https://github.com/JosephArmas/cecs-491A-Team-Big-Data>

Version History

Current Version: V3

CHANGES:

- Modified

General	<ul style="list-style-type: none">• RegManager changed to AccountManager• DataAccess changed to SqlDAO• SqlDAO communicating to MySql change to async (dashed lines)• Security layer added• SendInput() takes in strings• result.isSuccessful(), default = false
Successful Case	<ul style="list-style-type: none">• Restored Registration Services Layer• Restored Security Layer• Results are returned as Response
Email Exist	<ul style="list-style-type: none">• IsValidEmail(): bool AccountManager layer• IsValidPassword(): bool• InsertUser(): obj• Insert(): scalar SqlDAO layer
Invalid Email	<ul style="list-style-type: none">• EmailExist changed to IsValidEmail(): obj
Passphrase does not meet password length	<ul style="list-style-type: none">• IsValid changed to IsValidPassword(): obj
Passphrase out the scope of special characters	<ul style="list-style-type: none">• IsValid changed to IsValidPassword(): obj
Unable to give system wide username	<ul style="list-style-type: none">• IsValidEmail(): bool• IsValidPassword(): bool• InsertUser(): obj• Removed GenUsername()• Removed UserExist()• Removed Insert()
Username Exist	<ul style="list-style-type: none">• IsValidEmail(): bool• IsValidPassword(): bool

	<ul style="list-style-type: none"> • InsertUser(): obj • InsertCrendentials() changed to Insert(): scalar SqlDAO layer • Removed create emailExist obj • Removed GenUsername() • Removed UserExist() • Removed InsertUsername()
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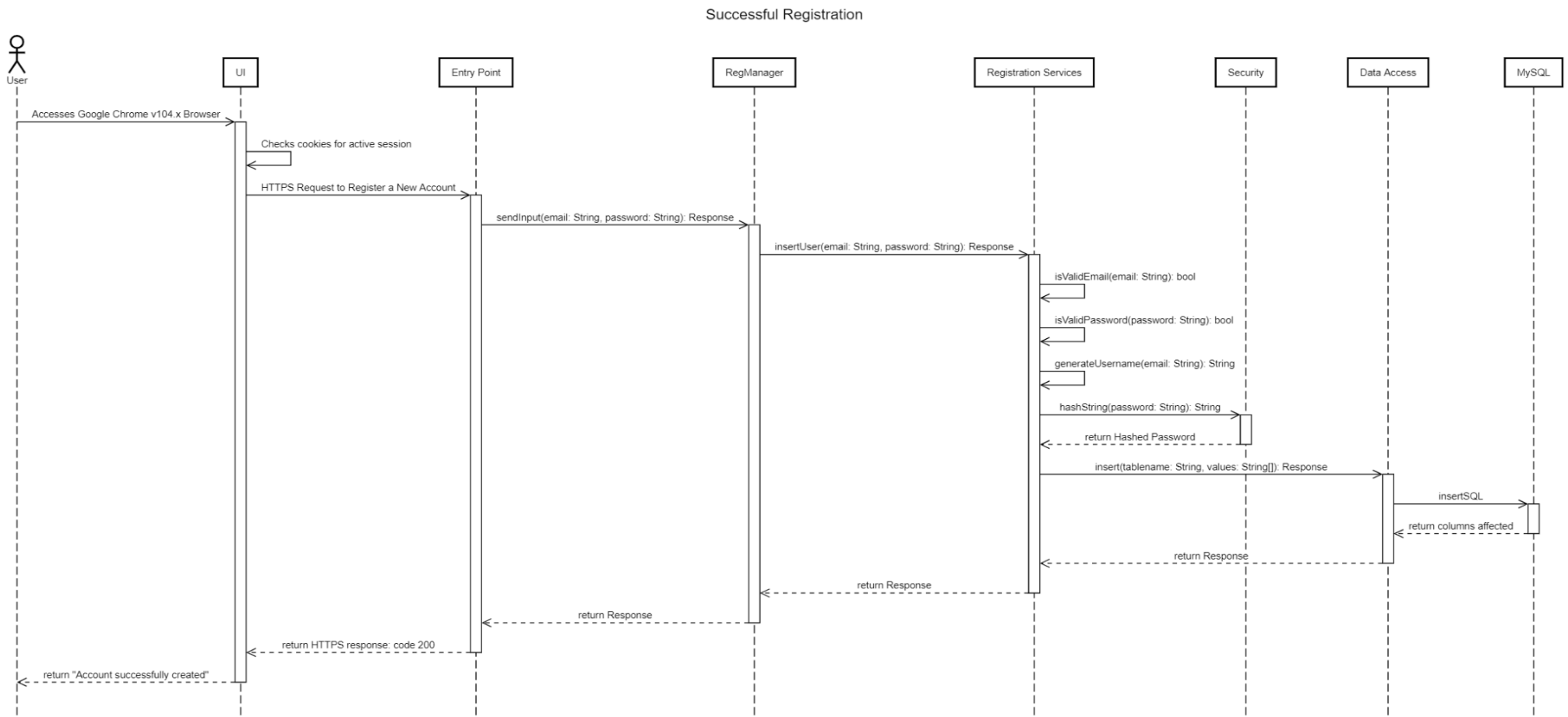
Previous Version: V2, V1

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Successful Case

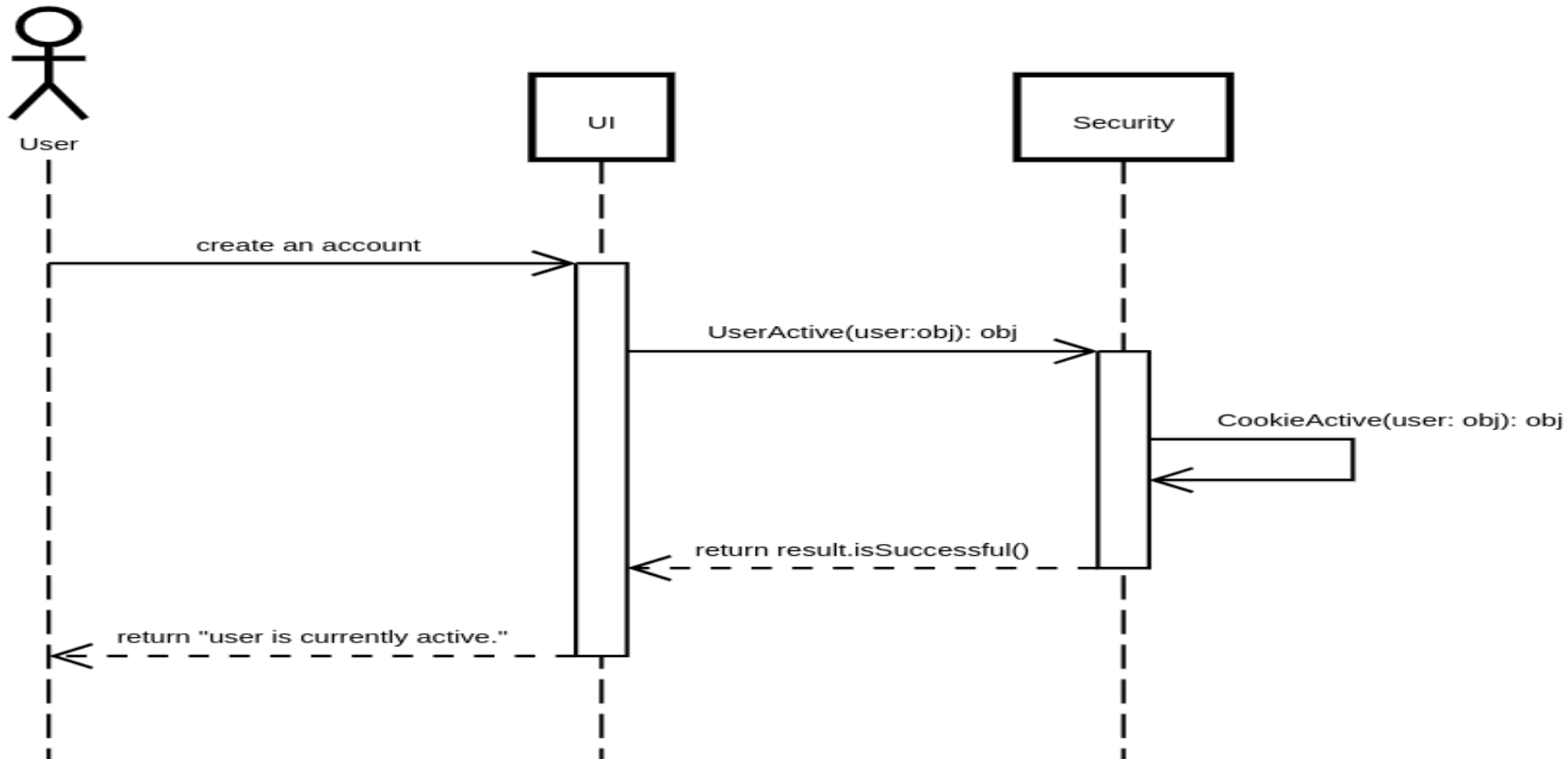
- Registration requires a user to include a valid email and password
- Registration Services layer verifies that the inputs are validated, then hashes the password in the security layer
- A username will then be randomly generated and provided back to the user while inserting credentials into the MySQL database



Active Session

- Objective is to check with the security layer if a cookie is active. It will notify the user and give the option to logout to continue registration.
- `result.isSuccessful()` is set to true

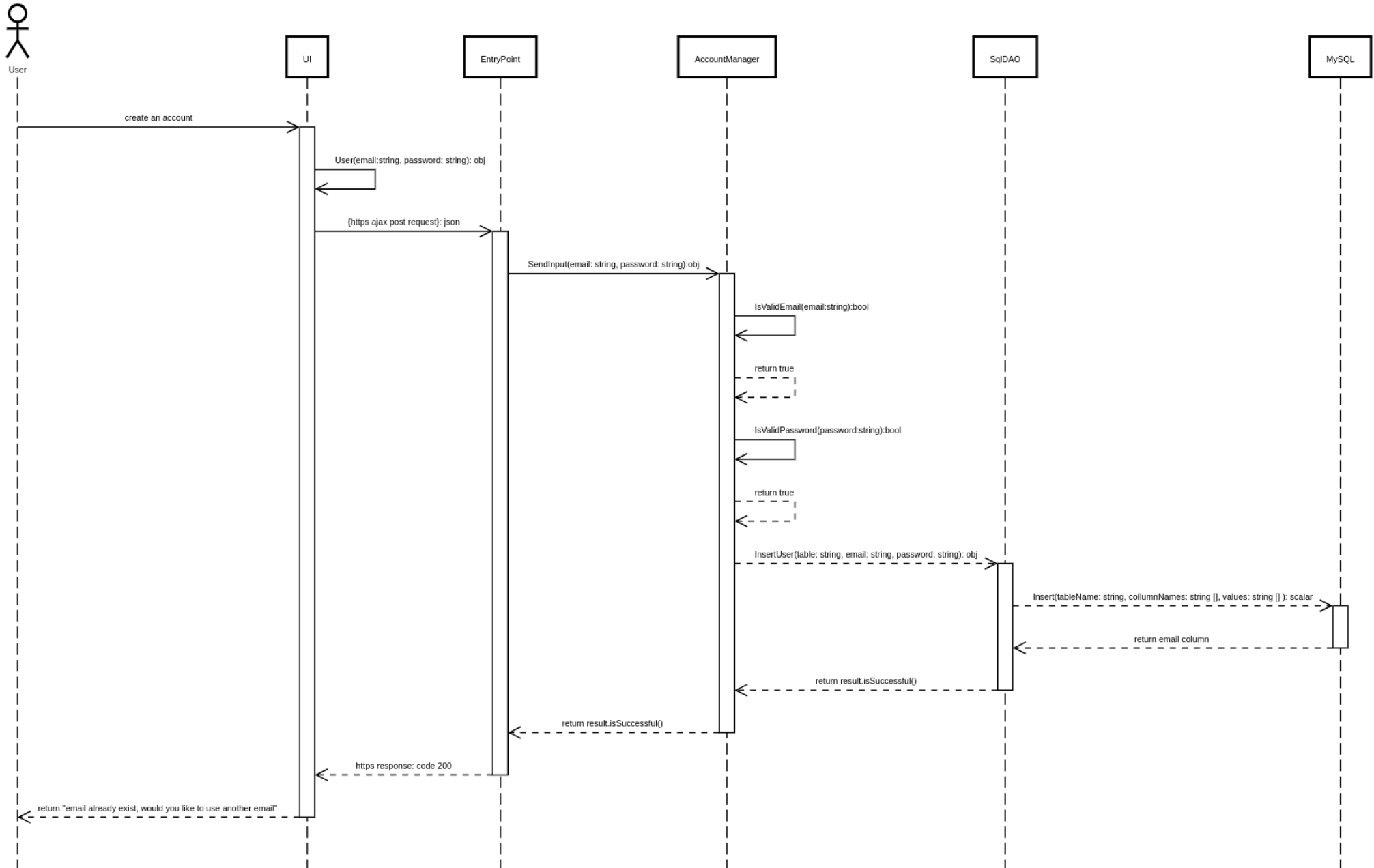
As a user I cannot register to create an account if there exist an active session



Email Exist

- Objective: Flow from user's interaction in the Ui towards the back end to check in Mysql database if email exist, if it does it gives user the option to input another email
- `result.isSuccessfu()` is set to true

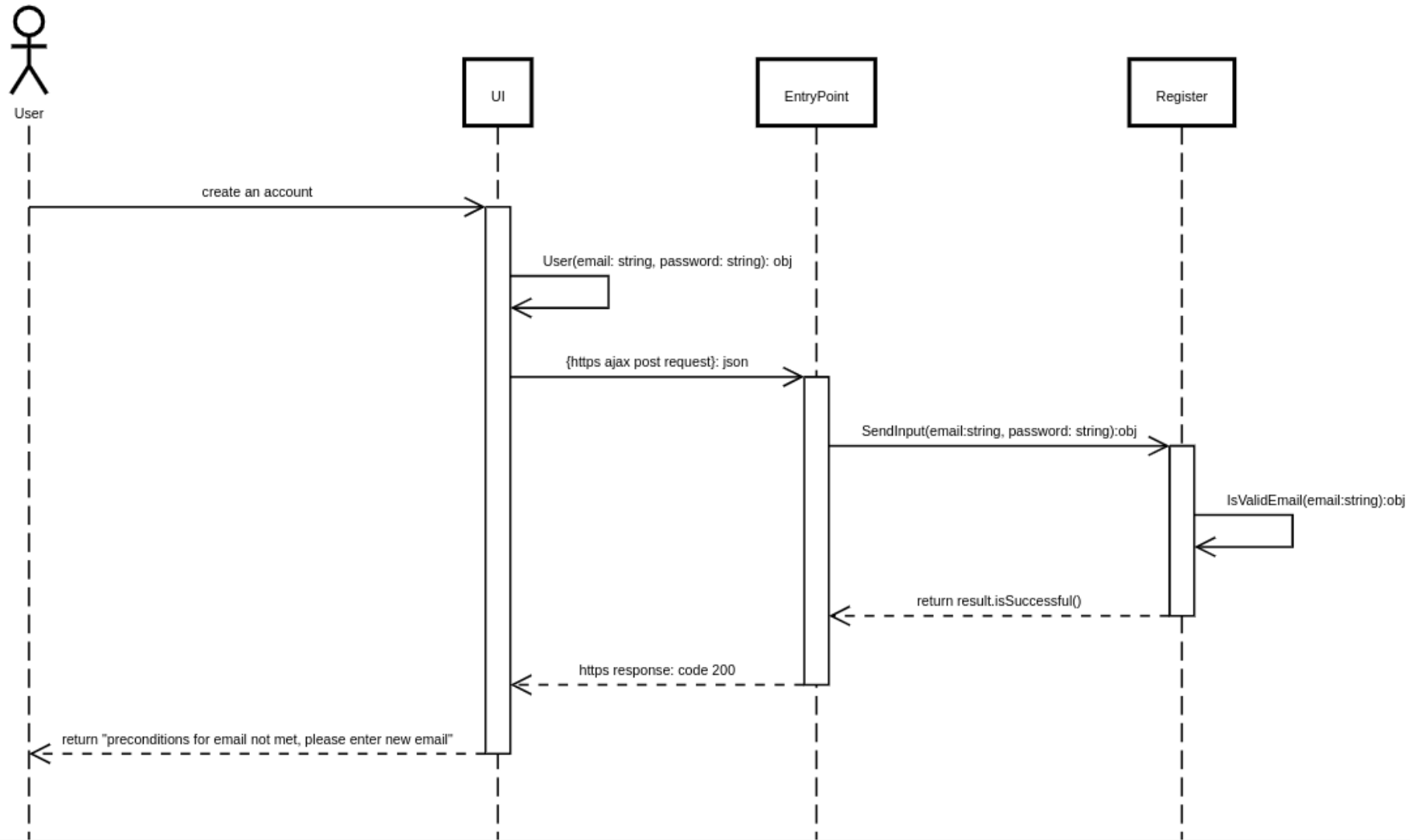
As a user I cannot register to create an account with an existing email



Invalid Email

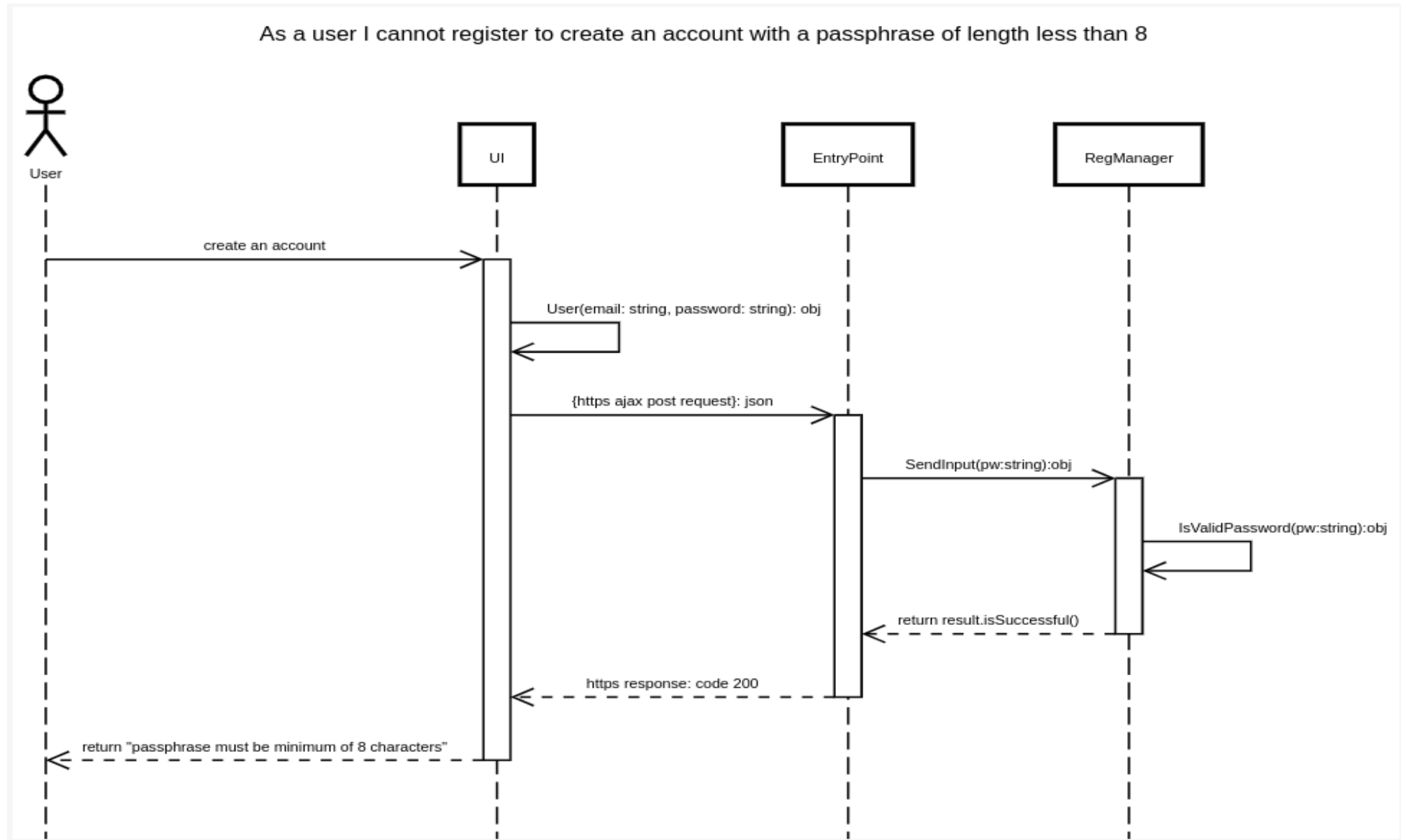
- Objective: catch when a user inputs an email that does not satisfy preconditions and gives a chance to input another email

As a user I cannot register to create an account without a valid email



Passphrase not meet password length

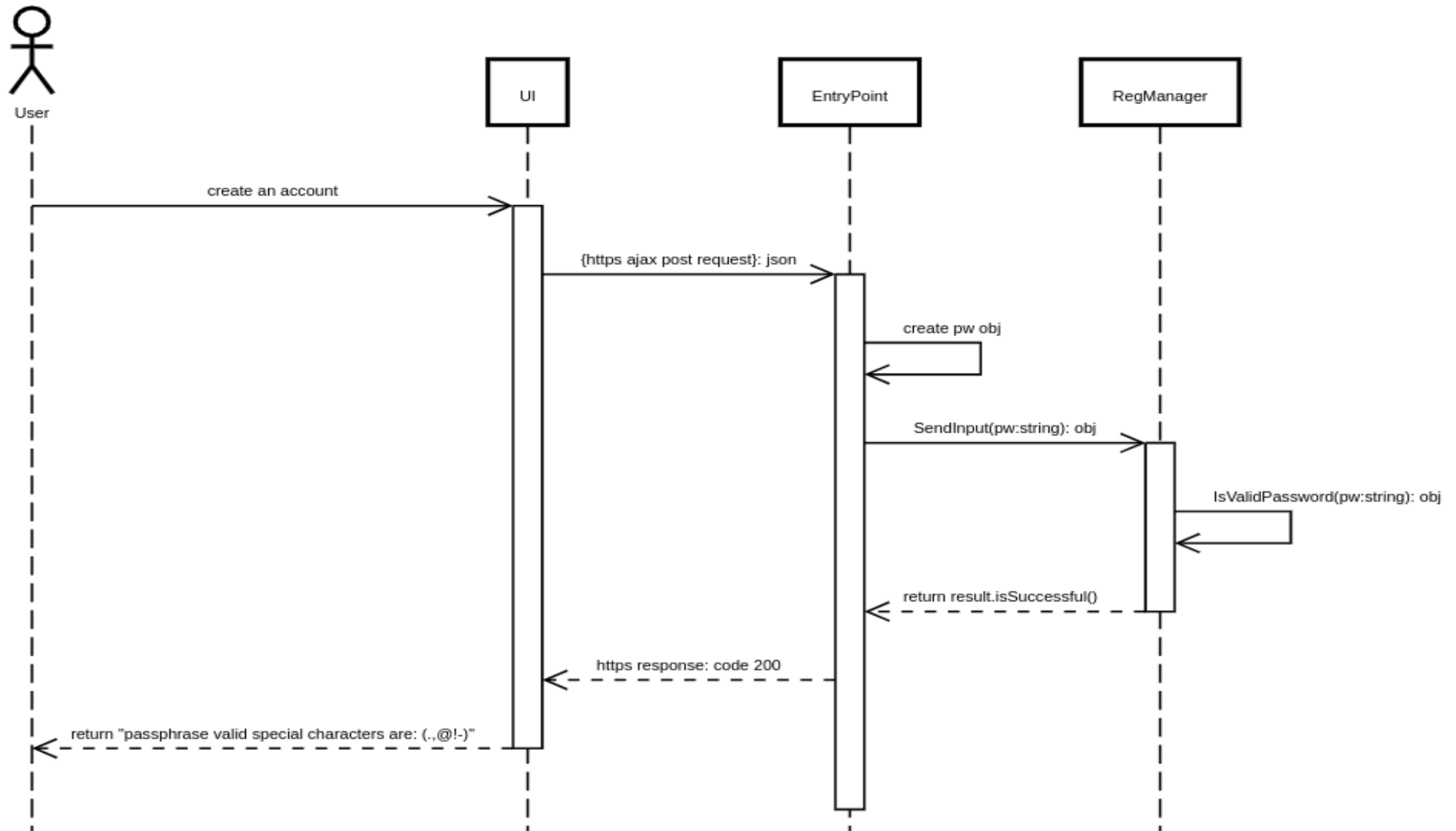
- Objective: catch when a user inputs a passphrase that does not meet minimum password length and output to the user the minimum passphrase length



Passphrase out the scope of special characters

- Objective: catch the error when a user inputs special characters that is out of the scope of the business requirements

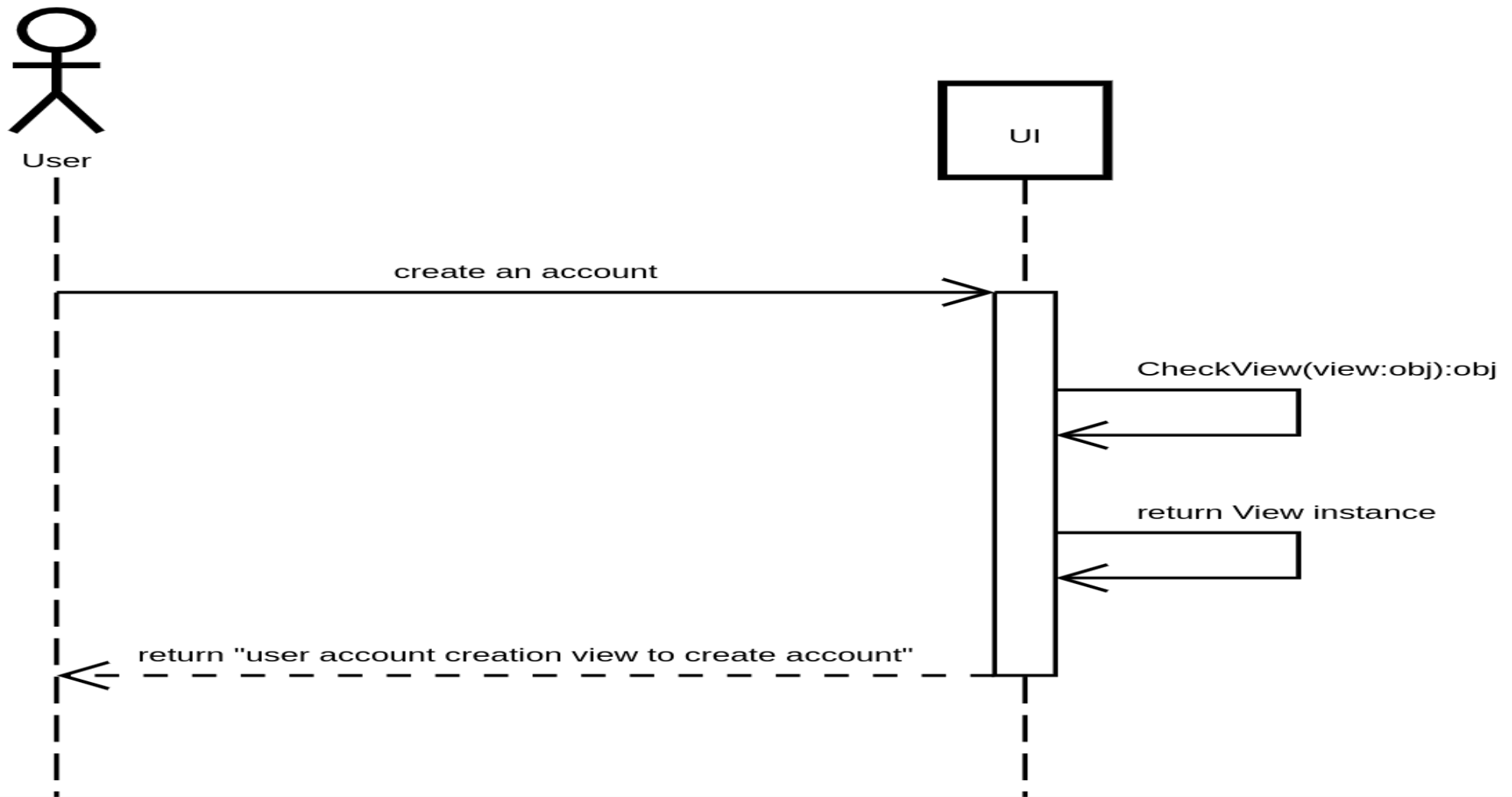
As a user I cannot register to create an account with a passphrase that consist with special characters out of the scope requirements



Different View

- Objective: catches when a user tries to create an account in a different view, and will notify user to switch view to continue registration

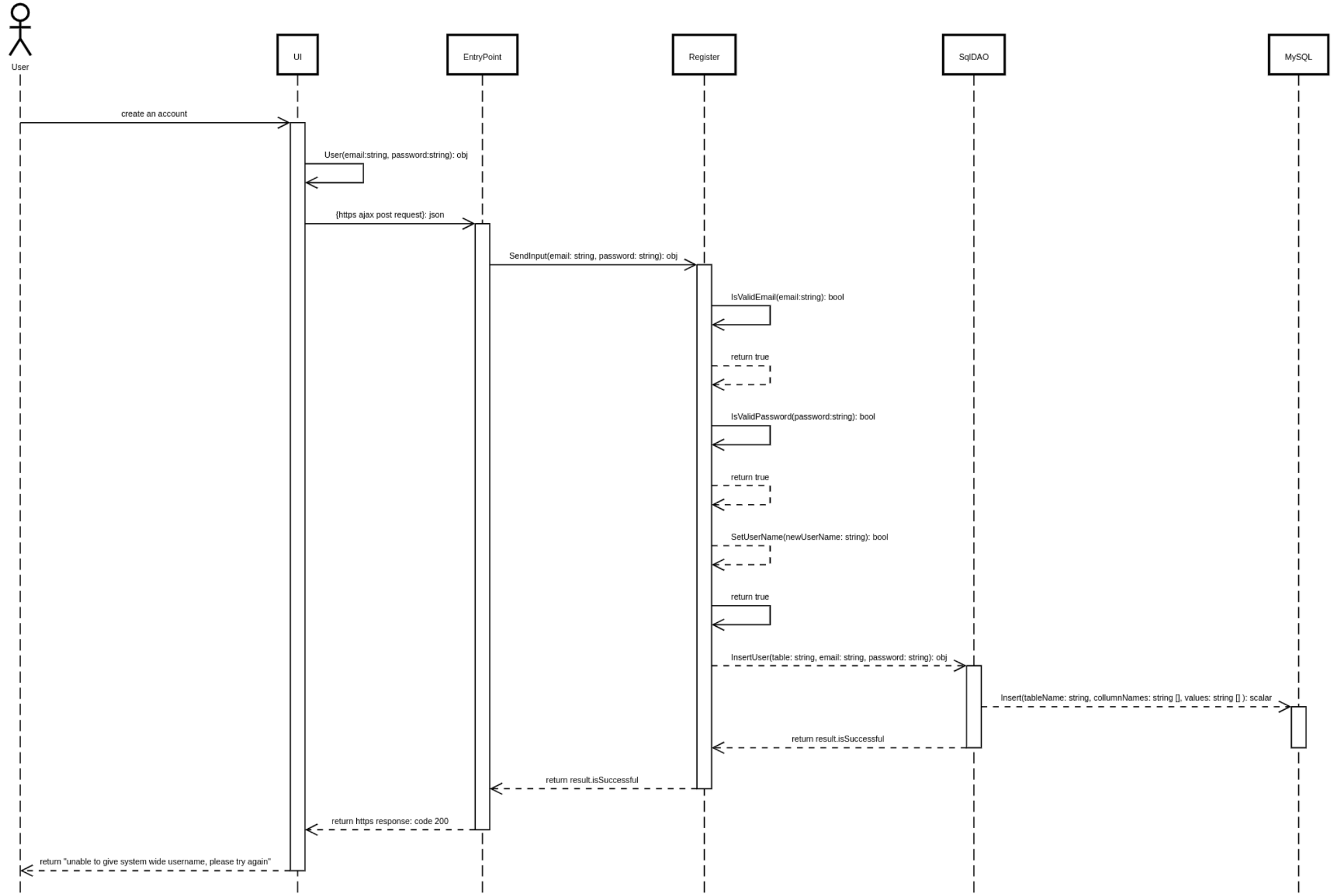
As a user I cannot register to create an account in a different view



Unable to give system wide username

- Objective: catches when a user create an with valid credentials, but system fails to give username, gives the option to retry
- MySQL database: insert a row under the email column

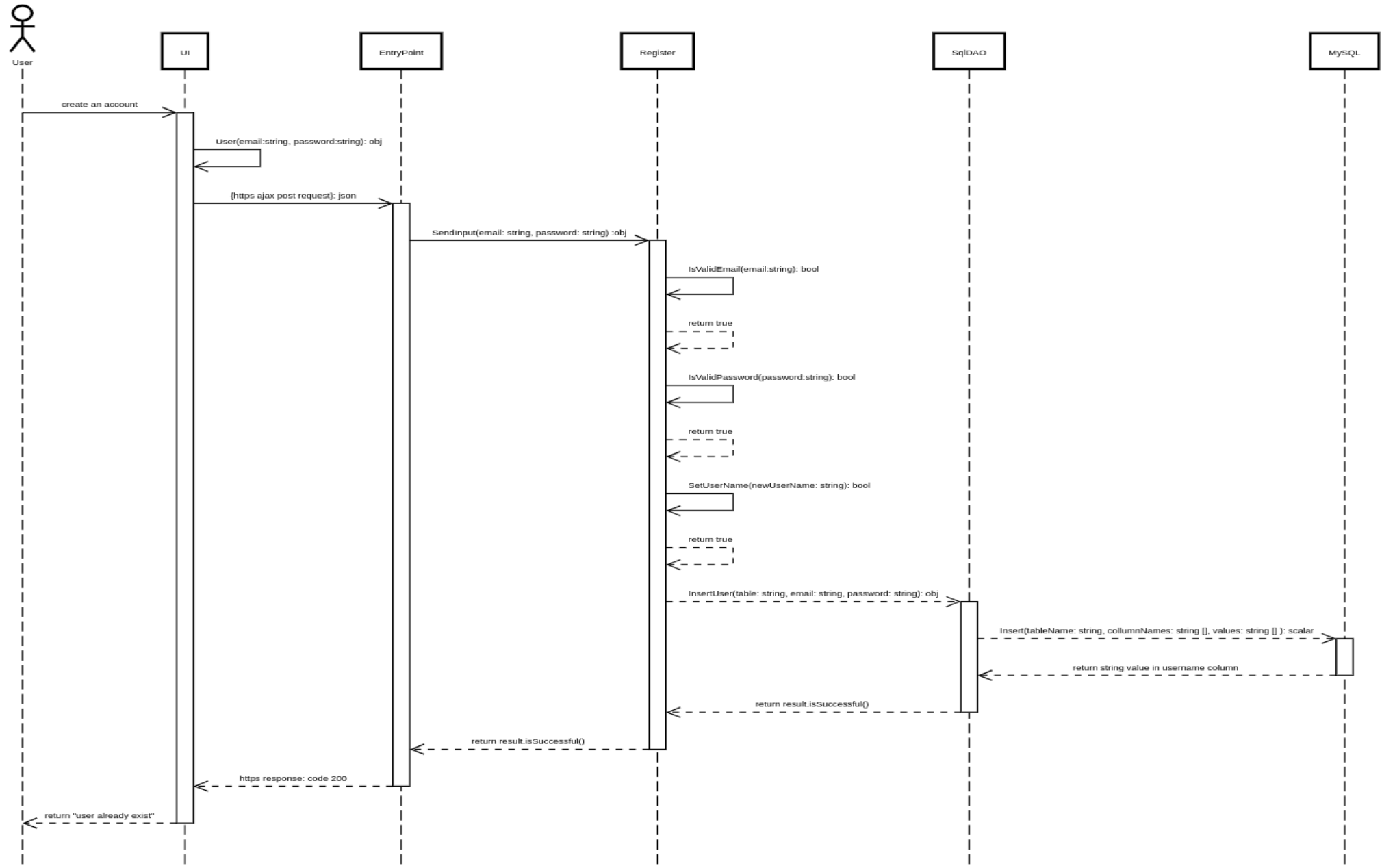
As a user I want to register to create an account but system fails to distribute system wide username



Username exist

- Objective: catches when a user create an with valid credentials, but system fails to give username, gives the option to retry
- MySQL: username will be a column in database that is a candidate key to prevent used usernames
- `result.isSuccessful()` is set to true

As a user I cannot register to create an account with an existing username



References

<https://sequencediagram.org/>

mermaid.live

Vatanak Vong: enum Results