

Team Big Data

U-tification

Low Level Design Registration Failures

Date: 11/05/2022

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

Version History

Current Version: V4

CHANGES:

- Modified

General	<ul style="list-style-type: none">• User() method to takes user input at the UI layer• Quotes from UI to User to indicate that a string is displayed to User• Registration Manager changed to RegManager• Deleted Registration Service Layer• https ajax post request UI to Entry Point• SendInput() method in Entry Point layer to take user input to RegManager layer• PascalCase for Methods• camelCase for variables• Reference: Vatanak Vong• Obj explanation• Obj results:<ul style="list-style-type: none">○ 0 = unknown○ 1 = success○ 2 = failure
Active Session	<ul style="list-style-type: none">• UserActive() method returns obj• Added CookieActive() method• Return Security obj
Email Exist	<ul style="list-style-type: none">• EmailExist() method takes in obj and returns an obj• RegManager communicates with DataAccess Layer• DataAccess Search() method parameter takes in obj and returns obj
Email input Null	Deleted
Invalid Email	<ul style="list-style-type: none">• IsValid() method takes in a obj and returns obj
Passphrase does not meet password length	<ul style="list-style-type: none">• IsValid() method takes in an obj and returns obj

Passphrase out the scope of special characters	<ul style="list-style-type: none"> • IsValid() method takes in an obj and returns obj
Different View	<ul style="list-style-type: none"> • CheckView() method takes in an obj and returns obj
Unable to give system wide username	<ul style="list-style-type: none"> • Insert() method added at MySQL layer
Username Exist	<ul style="list-style-type: none"> • Insert() method added at MySQL layer

Previous Versions: V3, V2, V1

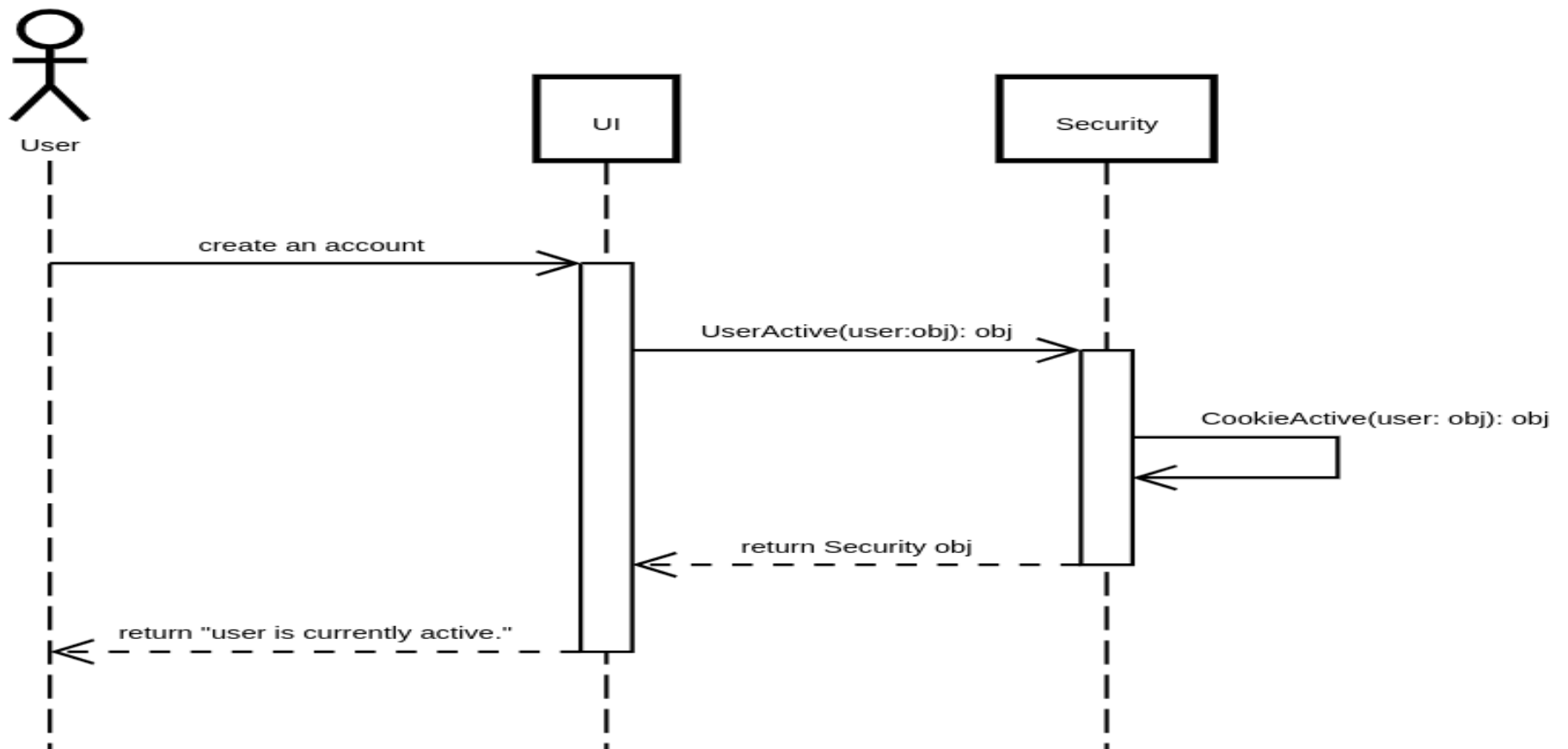
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Active Session

- 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.
- Security obj returns a result of 1 to indicate that its true a user is active

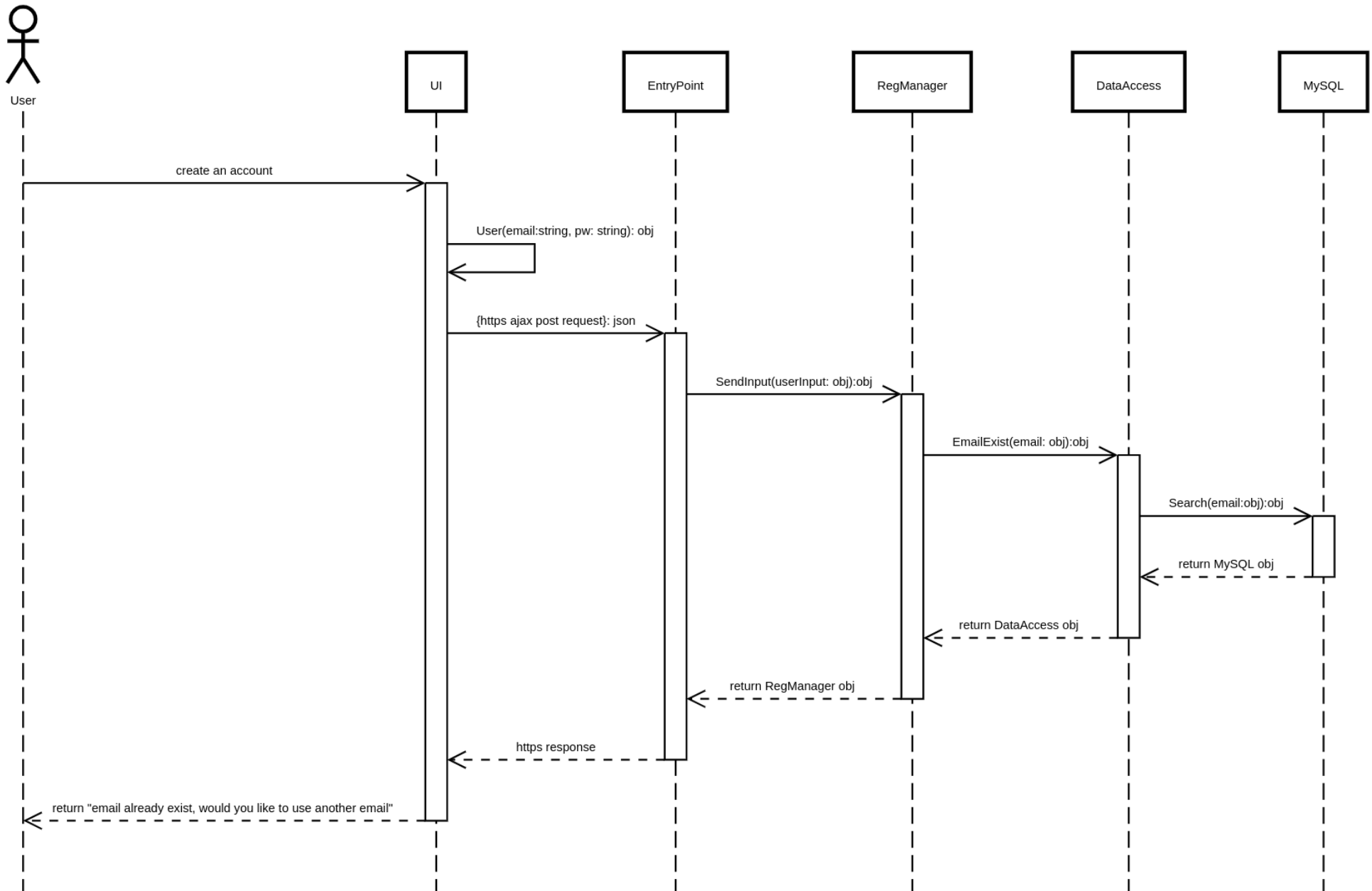
As a user I cannot register to create an account if there exist an active session



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
- MySQL obj returns 1 to indicate success, DataAccess obj returns 1 to indicate success, RegManager obj returns 1 to indicate success
- MySQL database: Each row will have inputted emails. Email column is primary key to prevent inputting the same email

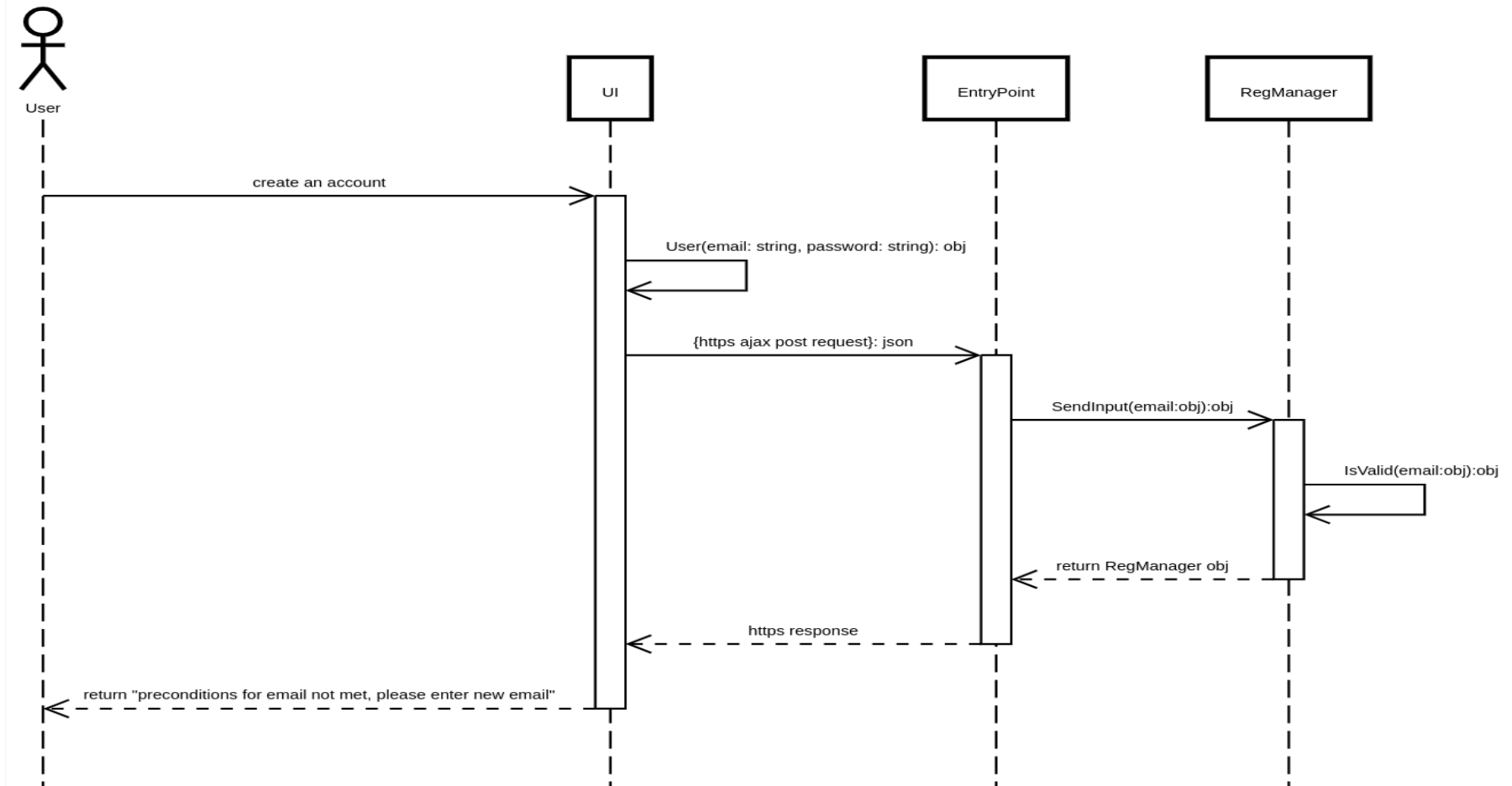
As a user I cannot register to create an account with an existing email



Invalid Email

- Objective: catch when a user inputs an email that does not satisfy preconditions and gives a chance to input another email
- RegManager obj return a 2 to indicate it failed

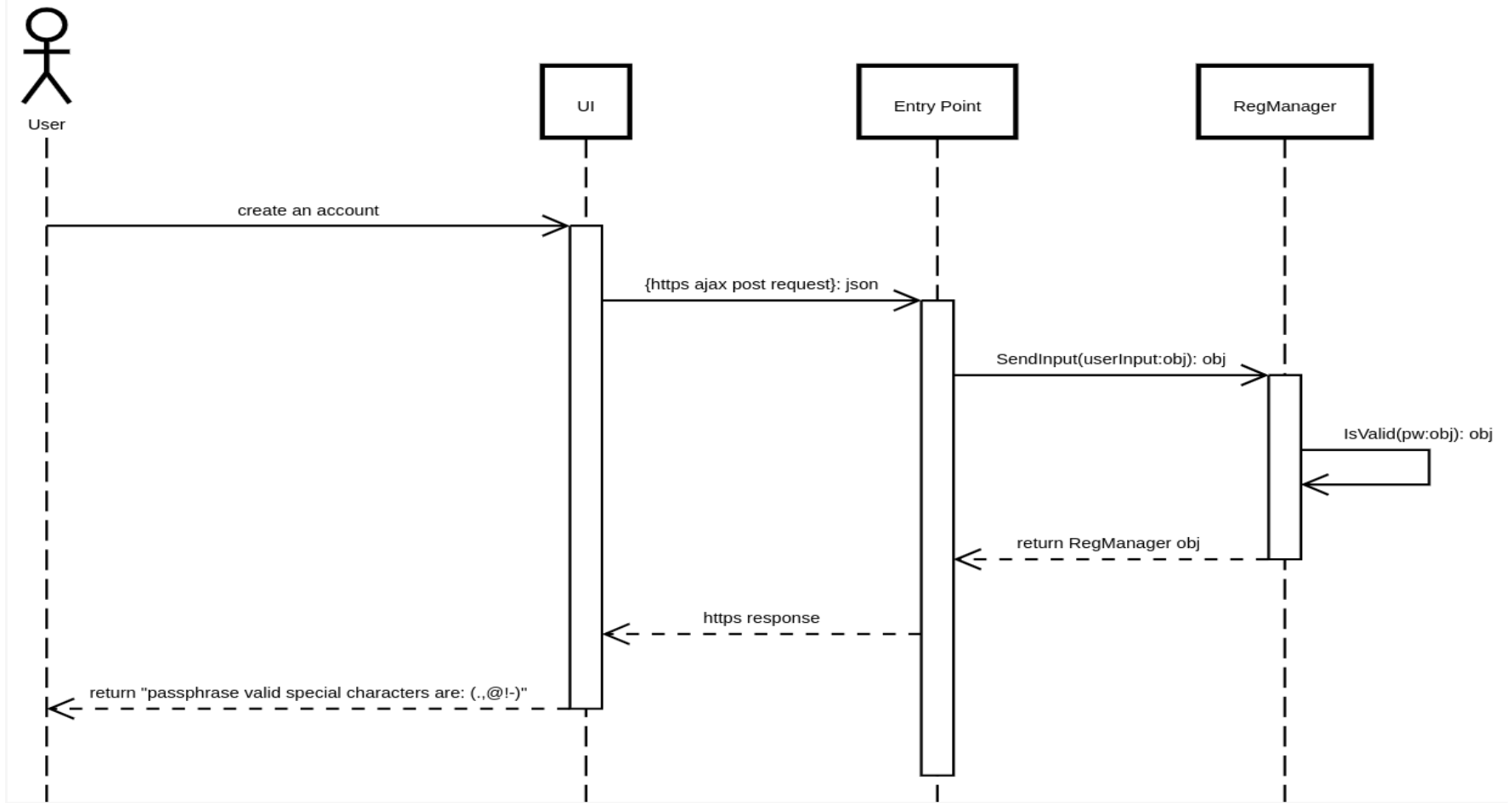
As a user I cannot reister to create an account without a valid email



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
- RegManager obj returns a 2 to indicate it failed

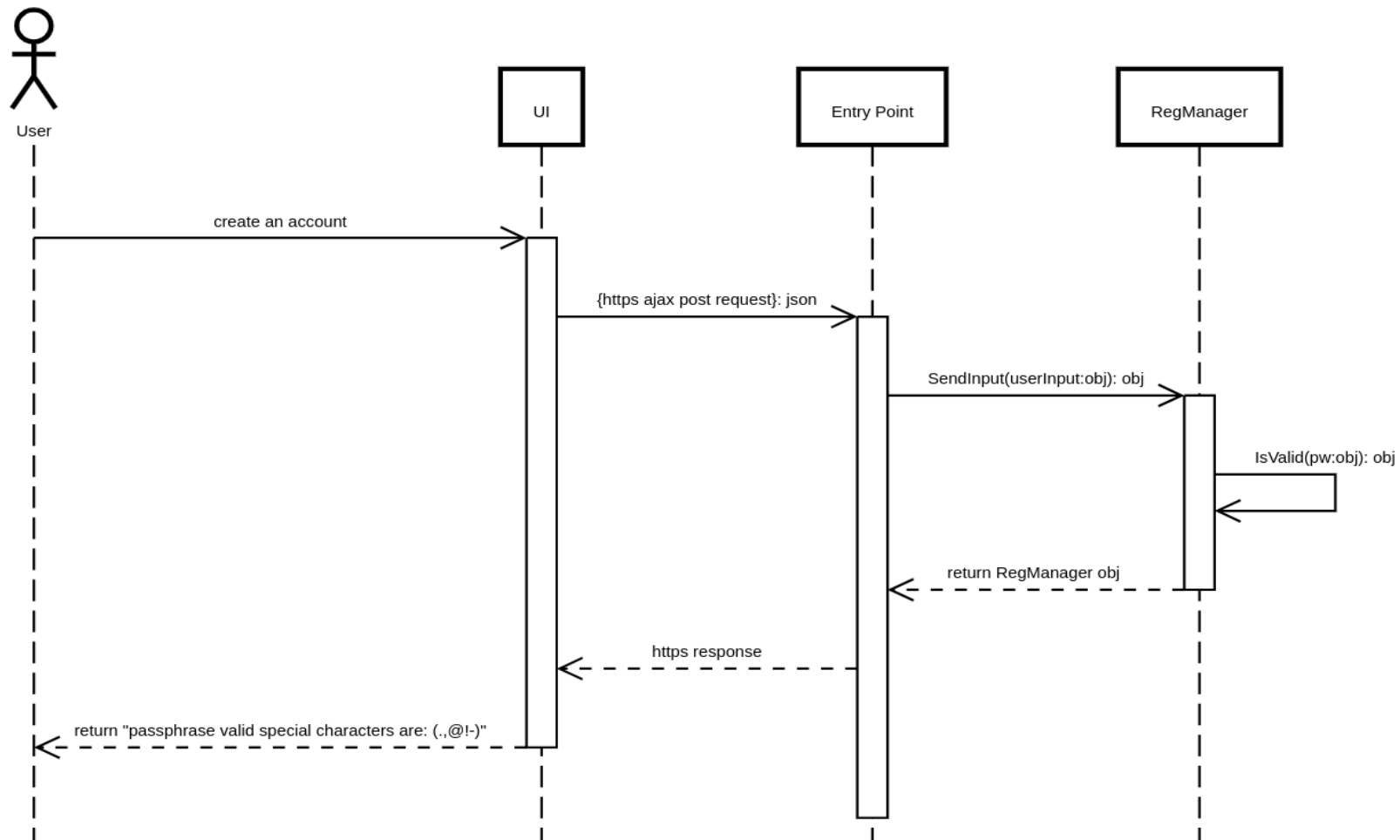
As a user I cannot register to create an account with a passphrase of length less than 8



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
- RegManager obj returns a 2 to indicate it failed

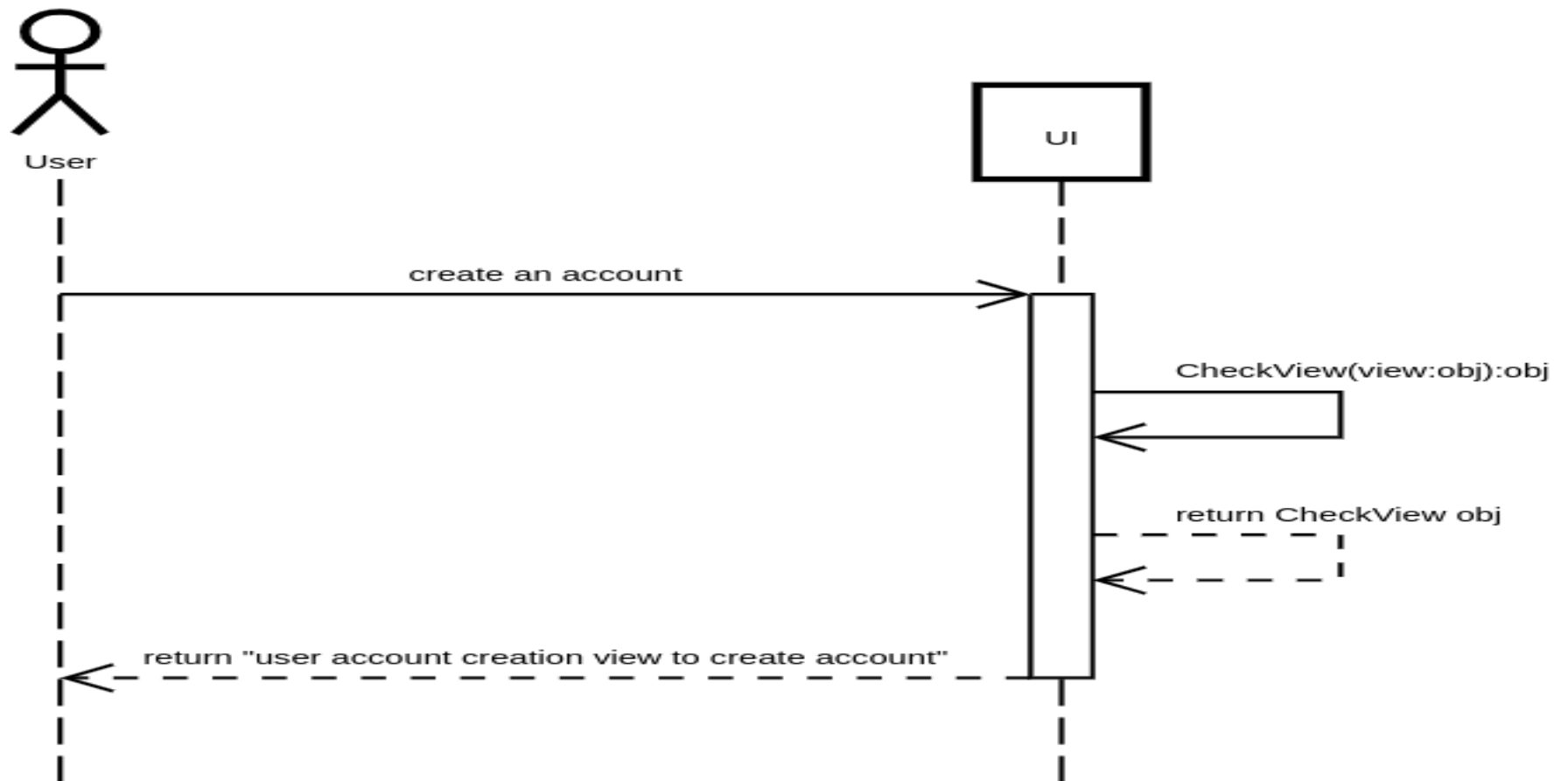
As a user I cannot register to create an account with a passphrase that consist with special characters out of the scope requirements



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
- CheckView obj returns a 2 to indicate it failed to be in account view

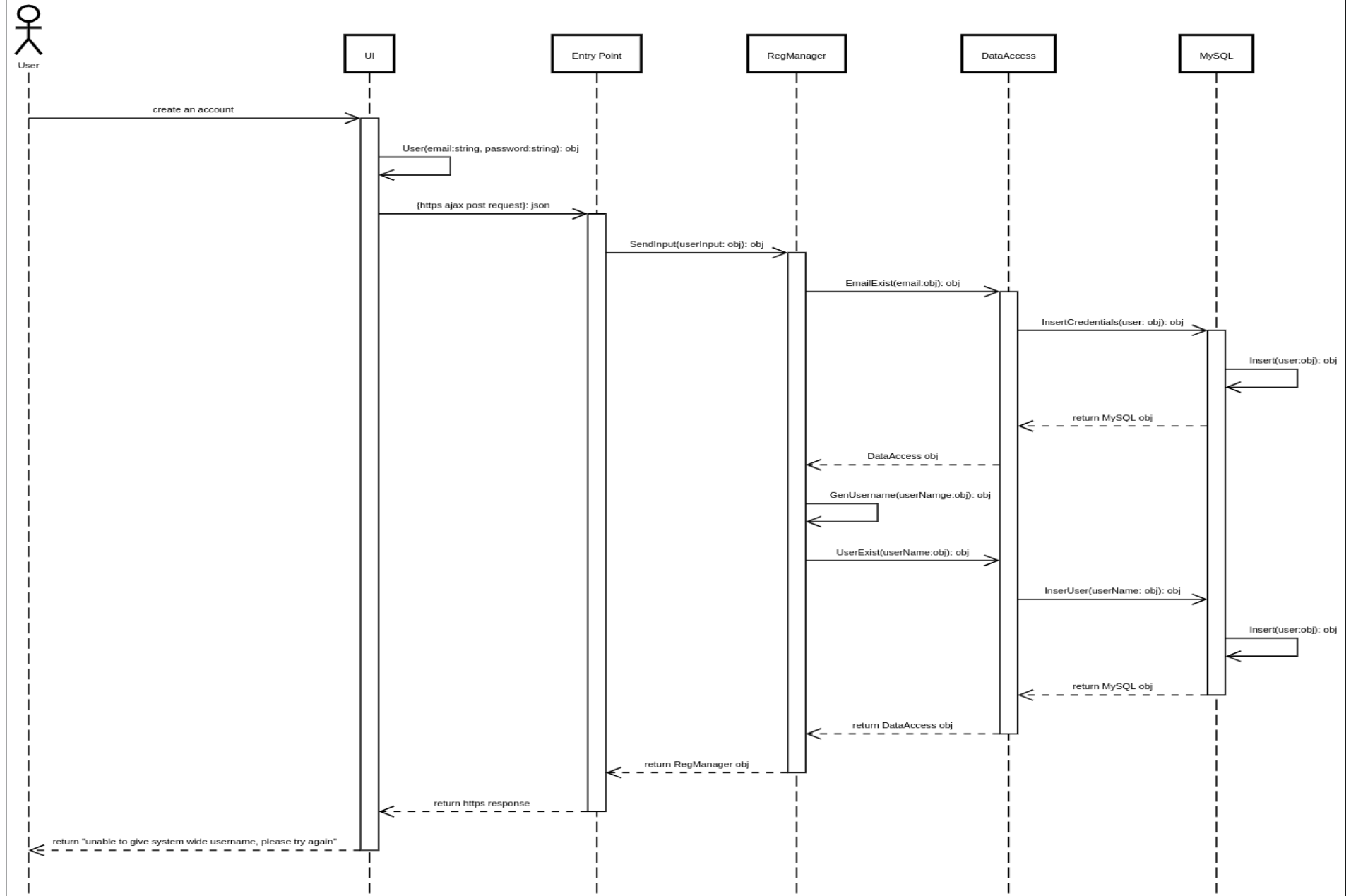
As a user I cannot register to create an account in a different view



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
- MySQL obj returns 1 to indicate email stored to MySQL, MySQL obj returns 2 to indicate it failed to store username, DataAccess obj returns 0 to indicate unknown, Regmanager obj returns 0 to indicate unknown

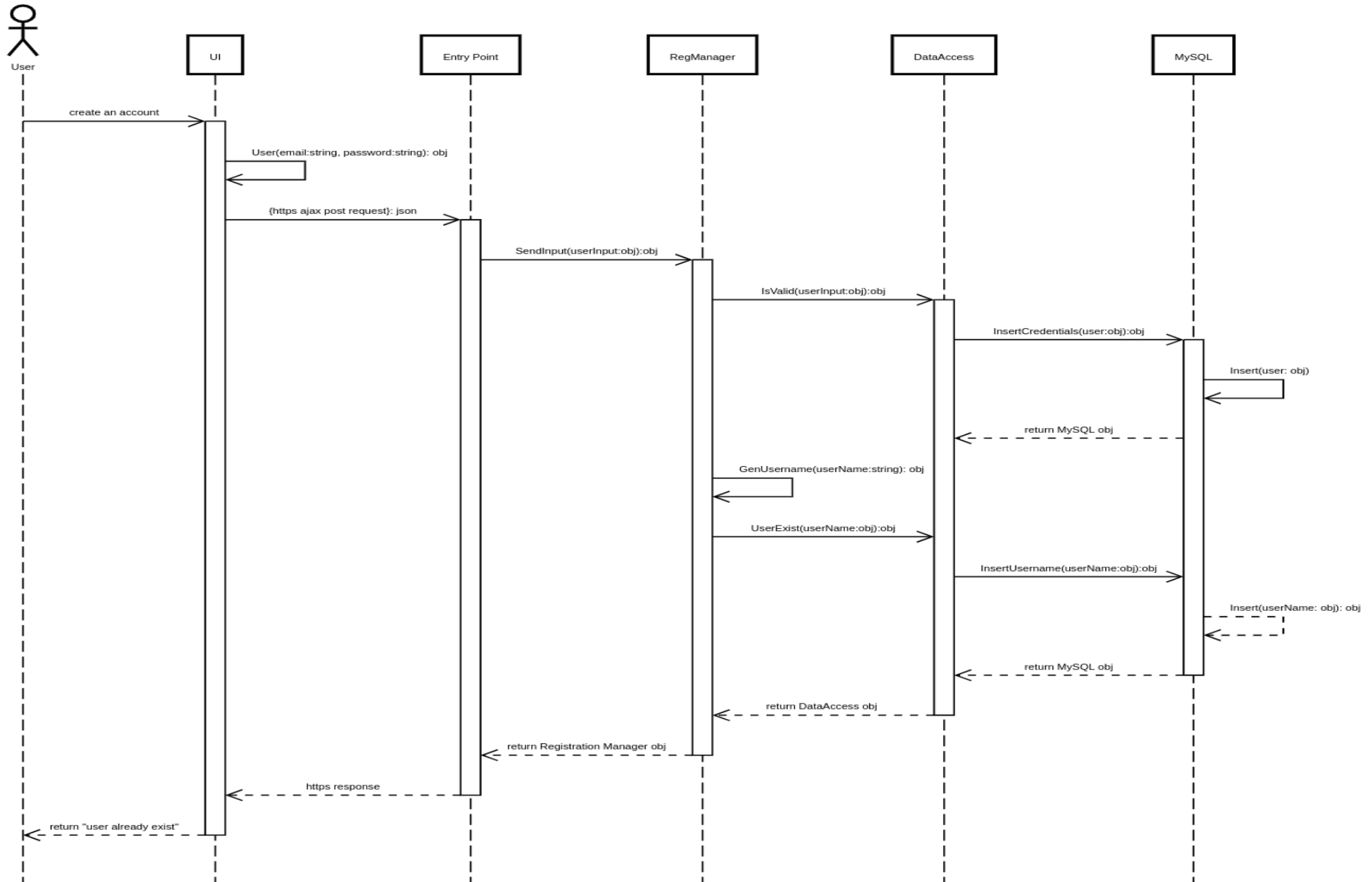
As a user I want to register to create an account but system fails to distribute system wide username



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
- MySQL obj returns 1 to indicate success for storing email, second MySQL obj returns 2 to indicate failure, DataAccess obj returns 2 to indicate failure, RegManager obj returns 2 to indicate failure

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



References

<https://sequencediagram.org/>

mermaid.live

Vatanak Vong: enum Results