

# LOW-LEVEL DESIGNS DOCUMENT

## Hubba - Registration

Version 2.0

Prepared By: Development Hell

Class: CECS 491-04

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Github Repository:

<https://github.com/DevelopmentHellaHell/SeniorProject>

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## Revision History

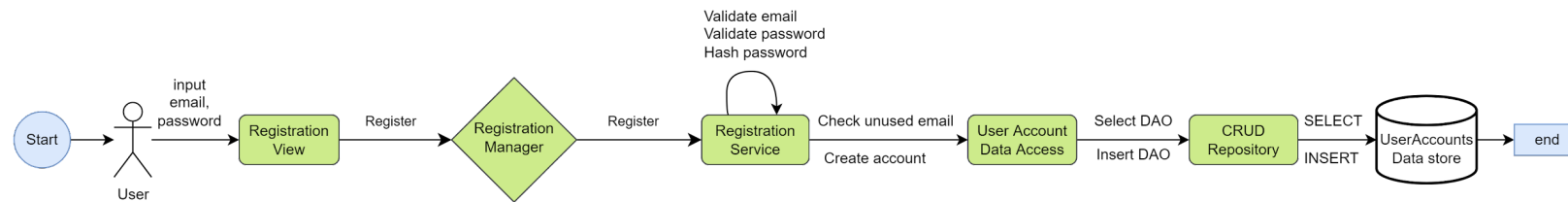
Version	Overview	Date
1.0	Initial LLD	10/21/2022
1.1	Final Test Plans	10/31/2022
1.2	Diagram revisions	11/7/2022
2.0	Revision after Milestone 2 Delivery	11/20/2022

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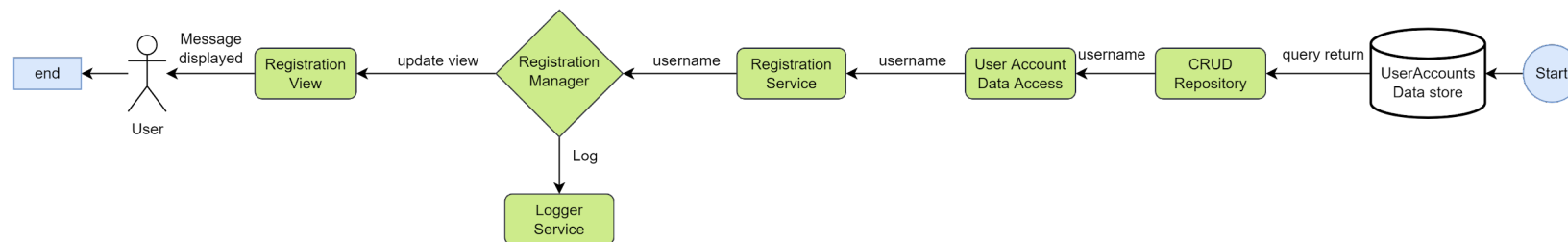
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# High-Level Design

## 1. Activity flow - Client request:



## 2. Activity flow - System response:



# Low-Level Design

**User story:** As a user, I can create a new account with a valid email and a valid passphrase.

**Preconditions:**

1. User must have no active authenticated session.
2. User must be on the Registration view.

**Business Rules:**

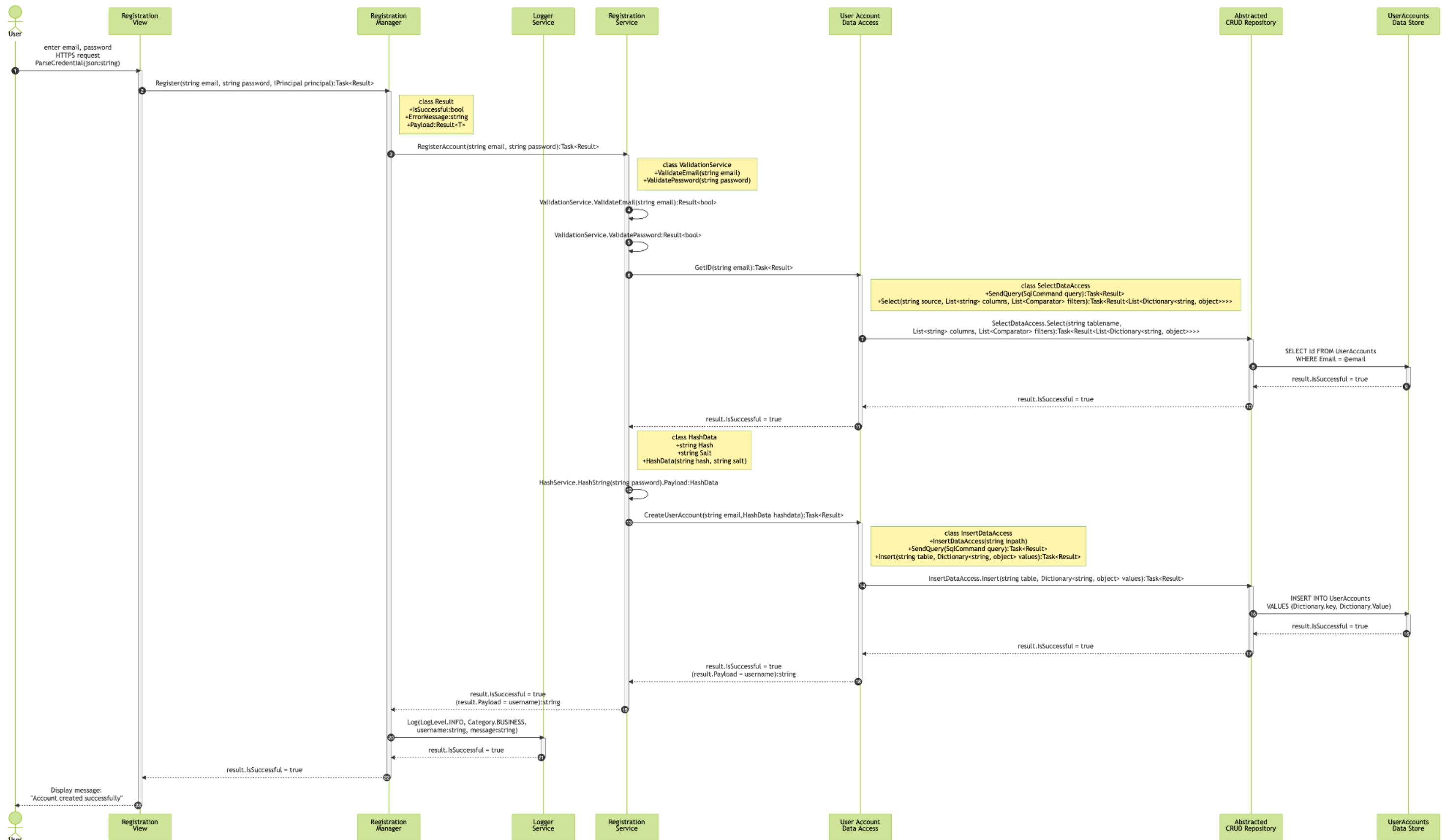
- User provides a valid email and a valid passphrase to register.
  - A valid email is in format: email@example.com
  - A valid passphrase satisfies the following constraints:
    - i. Minimum length of 8 characters
    - ii. Consists of the following:
      - blank space
      - a-z
      - A-Z
      - 0-9
      - . , @ ! -

## Relational Tables

UserAccounts	Id	Email	PasswordHash	PasswordSalt	LoginAttempts	FailureTime	Disabled
	PK						
Logs	Id	Timestamp	LogLevel	Category	Username	Message	Disabled
	PK						

## Successful Use Case

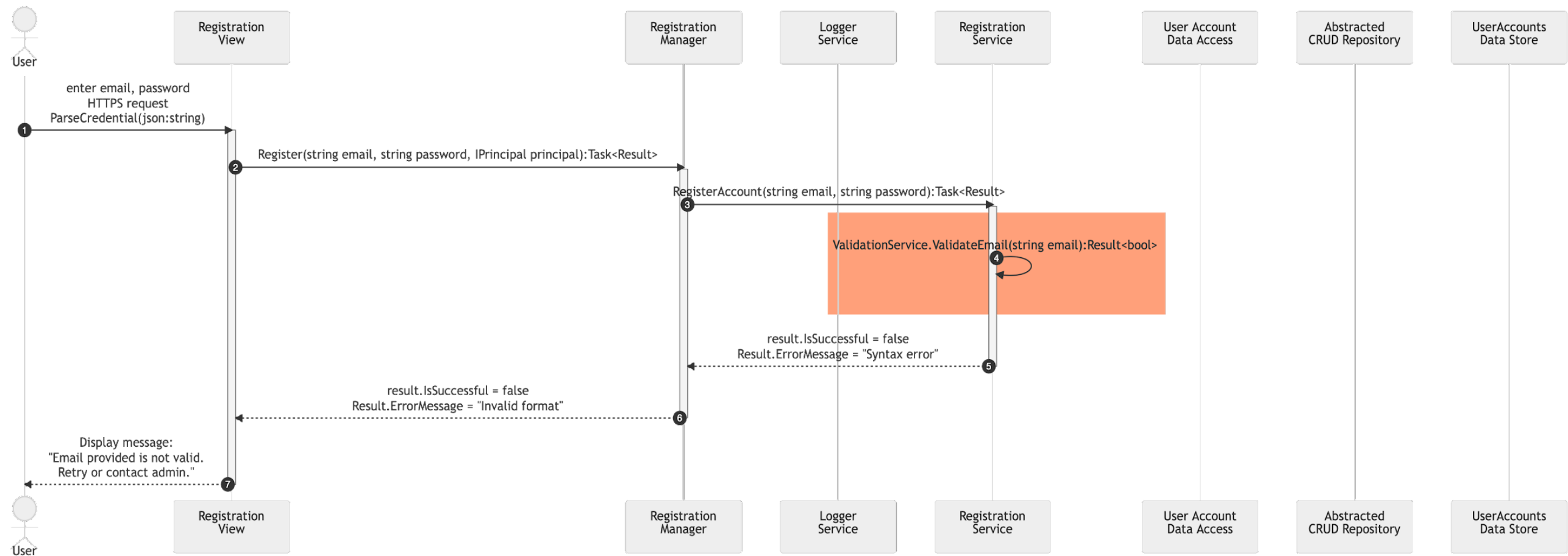
1. User provides a valid email and a valid passphrase. Within 5 seconds, the system assigns a system-wide unique username (which is user's email) then displays a message to the user - "Account created successfully".



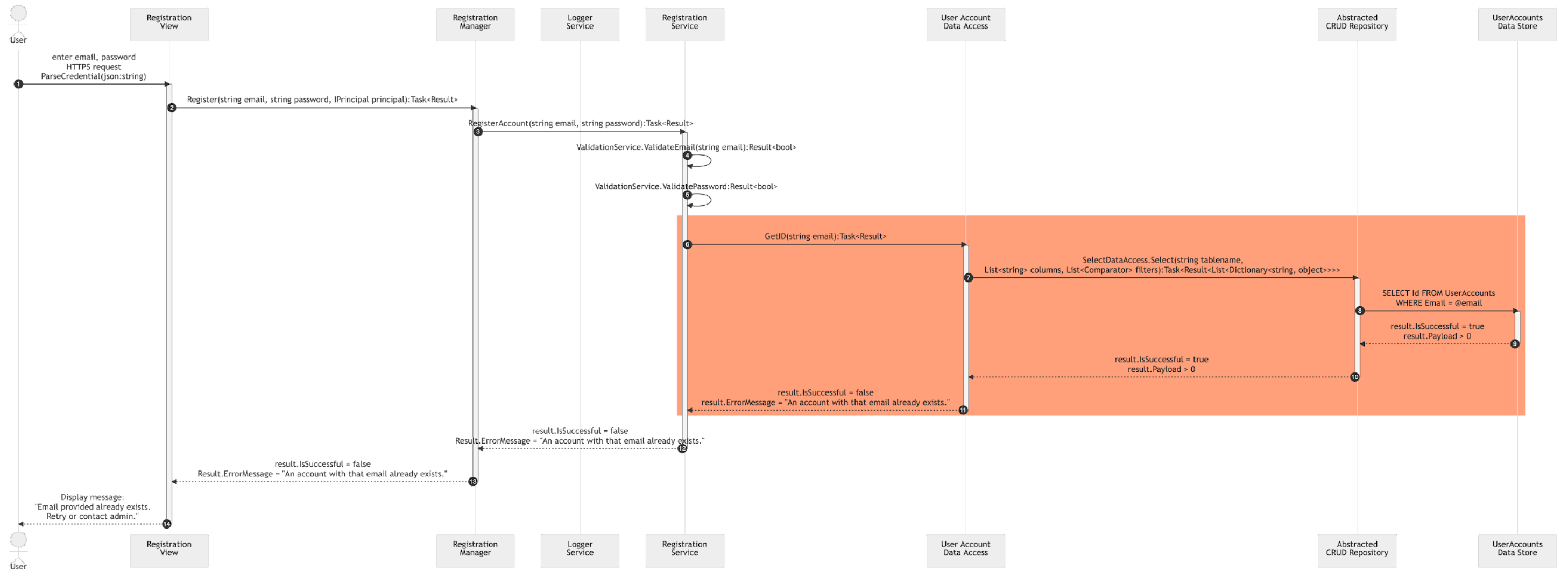
## Failure Use Case(s)

1. An invalid email is provided on registration. The system displays a message “Invalid email provided. Retry again or contact system administrator”. The system doesn’t create a new account.

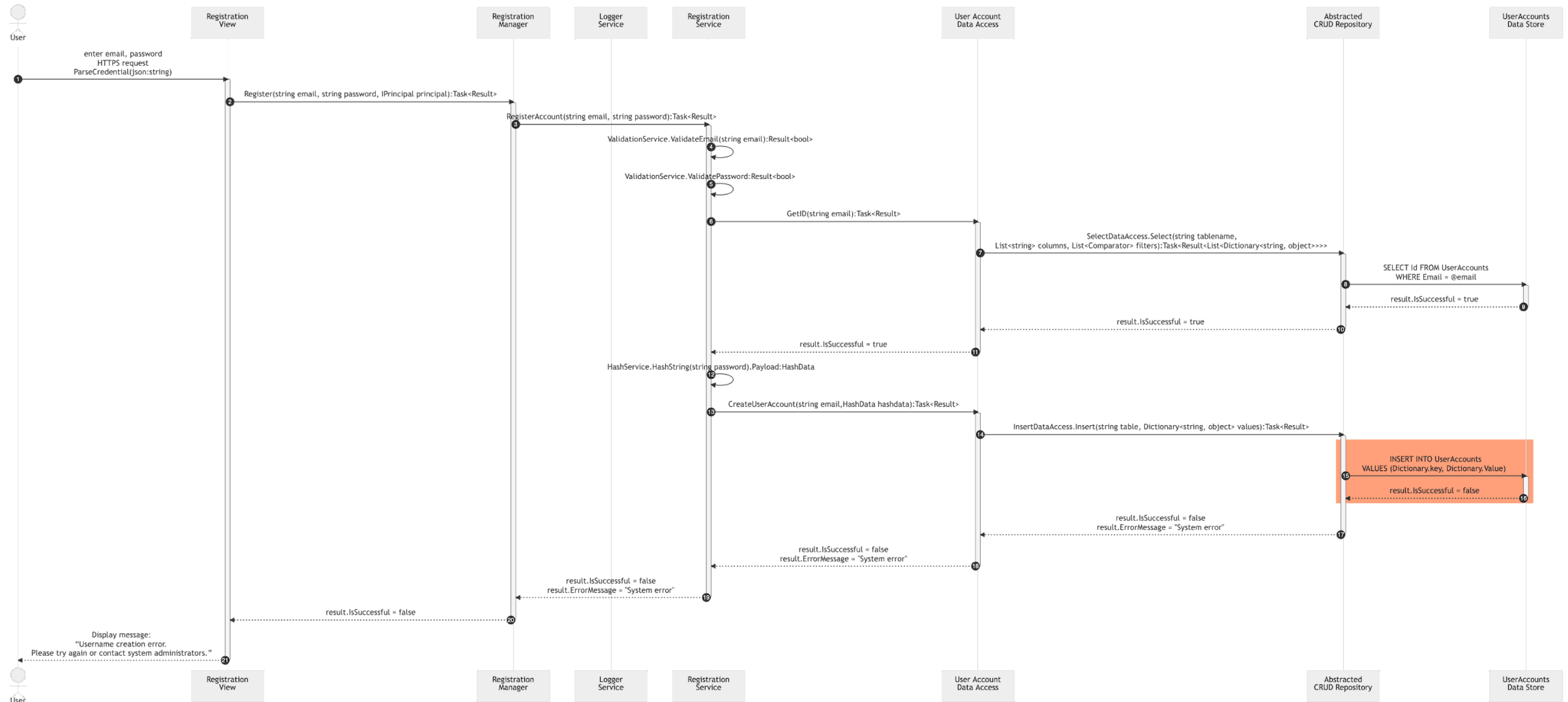
1a. Email’s format is not satisfied



## 1b. Email provided already exists



2. User provides a valid email and a valid passphrase to register; however, the system doesn't assign a system-wide username. User receives a message - "Username creation error. Please try again or contact system administrators.". There's no account created.



## References

This document elaborates client's requirements<sup>1</sup> for one of the product's core components - REGISTRATION.

The requirement is designed based on the system architecture provided in High-Level Design Document<sup>2</sup>.

The diagrams included in this document utilized diagrams.net<sup>3</sup> and Mermaid.js<sup>4</sup>.

<sup>1</sup> Client's email, 10/17/2022

<sup>2</sup> High-Level Design Document, URL: <https://github.com/DevelopmentHellaHell/SeniorProject/blob/b43182c4076d471ef03520052675f1f88371dafd/docs/HL%20Design/DevelopmentHell%20HLD%20v1.2.pdf>

<sup>3</sup> <https://www.diagrams.net/>

<sup>4</sup> <https://mermaid-js.github.io/mermaid/#/>