

Create User

Overview

This API allows a user with Admin or Lab Manager role to create a new user account in the system.

The system will automatically:

- 1. Validate input data (format, business logic) using CreateUserValidator and check logic in CreateUserHandler.
- 2. Generate a random temporary password and encrypt it using BCrypt.
- 3. Encrypt sensitive data (Email, Phone, Name...) using EncryptionHelper (via IUserRepository).
- 4. Save the new user to the database.
- 5. Send an email to the new user (using IEmailService, implemented as SmtplibEmailService), containing the login email and temporary password.

This API does not allow creating an account with the "ADMIN" role.

API Specification

API	URL
POST	/api/user/create
Permission	ADMIN, LAB_MANAGER

Request sample

```
{
  "roleCode": "LAB_USER",
  "email": "new.tech@example.com",
  "phoneNumber": "0987654321",
  "fullName": "Jane Doe",
  "identifyNumber": "1234567890",
  "gender": "Female",
  "age": 28,
  "address": "456 Oak Avenue, City",
  "dateOfBirth": "05/15/1996"
}
```

Field	Description	Data Type	Examples
roleCode	New user role code	string	userName
email	The user's (unique) email address.	string	user@example.com
phoneNumber	Phone number	string	0987654321
fullName	Full name.	string	Jane Doe
identifyNumber	Identity Card Number	string	1234567890
gender	Gender. Accepted: "Male", "Female"	string	Female
age	Year old	integer	28
address	Address.	string	456 Oak Avenue
dateOfBirth	Date of birth. Required format MM/dd/yyyy.	string	05/15/1996

Response sample

```
{
```

```
"statusCode": 201,
"message": "User created successfully.",
"data": {
  "userId": "a1b2c3d4-e5f6-7890-1234-567890abcdef",
  "roleCode": "LAB_TECH",
  "email": "new.tech@example.com",
  "phoneNumber": "0987654321",
  "fullName": "Jane Doe",
  "identifyNumber": "1234567890",
  "gender": "Female",
  "age": 28,
  "address": "456 Oak Avenue, City",
  "dateOfBirth": "1996-05-15T00:00:00"
},
"respondedAt": "2023-10-28T11:00:00.123Z"
}
```

Validation

Status code	Description	Examples
400	Format error (from Validator)	<pre>{ "statusCode": 400, "message": "Email must be a valid email address.", ...}</pre>

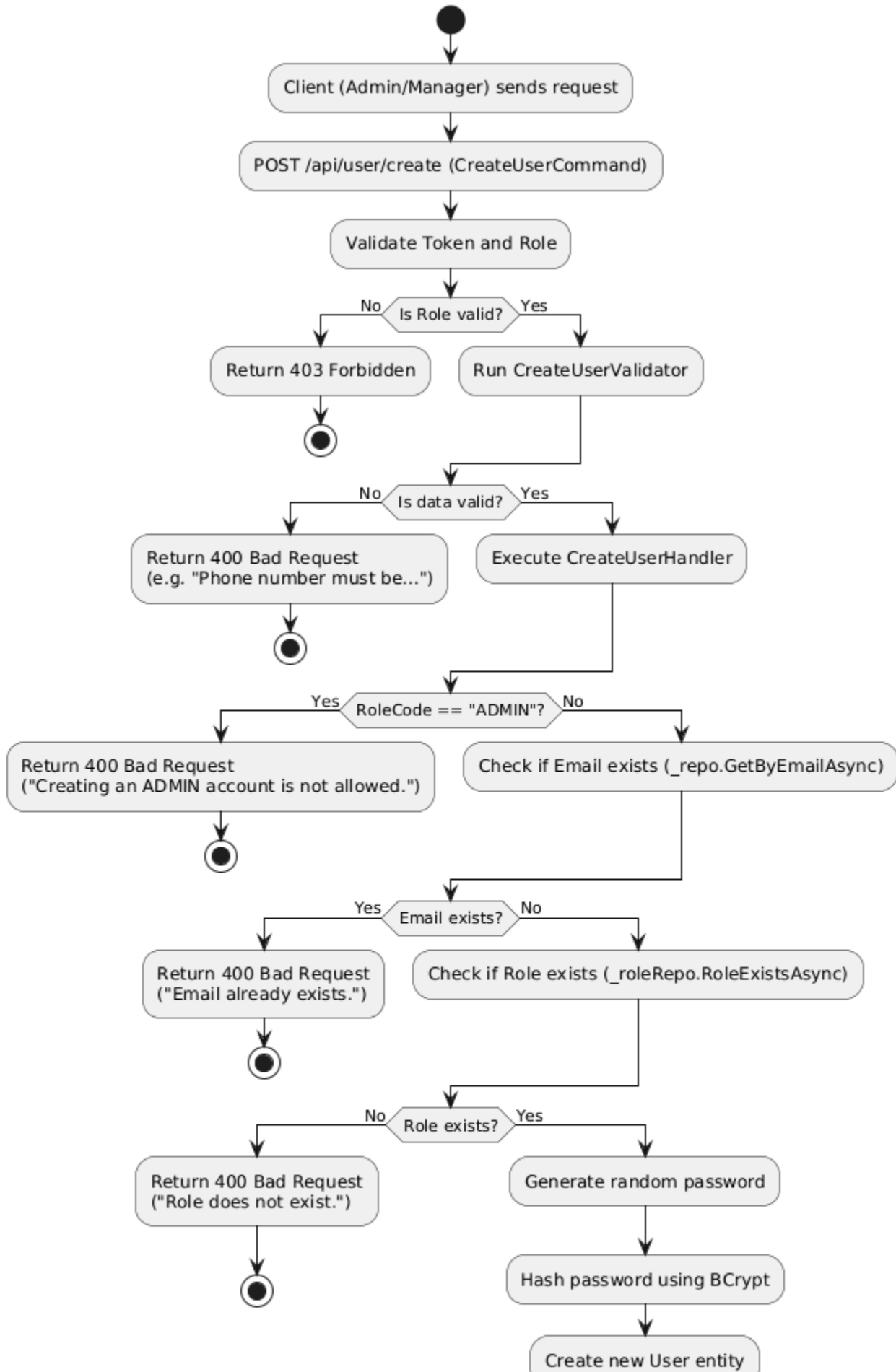
400	Format error (from Validator)	{ "statusCode": 400, "message": "Phone number must be 8 to 20 characters.", ...}
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400	Format error (from Validator)	{ "statusCode": 400, "message": "Identification number must be 6 to 20 characters.", ...}
400	Format error (from Validator)	{ "statusCode": 400, "message": "Gender must be one of: Male, Female, M, F.", ...}
400	Format error (from Validator)	{ "statusCode": 400, "message": "Invalid date of birth. Accepted format: MM/DD/YYYY.", ...}

400	Business error (from Handler)	{ "statusCode": 400, "message": "Creating an ADMIN account via this use case is not allowed.", ...}
400	Business error (from Handler)	{ "statusCode": 400, "message": "Email already exists.", ...}
400	Business error (from Handler)	{ "statusCode": 400, "message": "Role does not exist.", ...}

Activity Diagram

Activity Diagram - Create User (POST /api/user/create)



Sequence Diagram

