

PROBLEM

Reply provides Video Streaming services like sports, movies etc., to their customers. Before subscribing to their services, customers can register for a 15-day free trial account. Before or after completing 15-days free trial they can make a payment for Annual/Monthly Subscription.

Your solution should be of production quality.

Please Implement below API,

1. Registration service with /users endpoint for taking a JSON body with details such as,

FIELDS & VALIDATIONS

- Username - alphanumeric, no spaces.
- Password – min length 8, at least one upper case letter & number.
- Email – email id with email format.
- DoB (Date of Birth) - ISO 8601 format.
- Credit Card Number – This field is optional. If given should have 16 digits.

EXPECTED RESPONSES:

- If the request body fails to satisfy any of the basic validation checks return HTTP Status code: 400
- Reject requests if the user is under the age of 18 and return HTTP Status code: 403
- If the username has already been used reject the request and return HTTP Status code: 409
- A successful action should return HTTP Status code: 201

GET /users endpoint:

Consumer should be able to provide a filter (CreditCard=Yes/No) in their request.

If “Yes” then should return Users registered with Credit Card Number.

If “No” then return Users registered without a Credit Card Number.

Without any filter should return all the Registered Users.

2. Payment service with /payments endpoint for taking a JSON body with details such as,

FIELDS & VALIDATIONS

- Credit Card Number – 16 digits
- Amount – 3 digits

EXPECTED RESPONSES:

- If the request body fails to satisfy any of the basic validation checks return HTTP Status code: 400
- If credit card number is not registered against any Registered User return HTTP Status code: 404
- A successful payment should return HTTP Status code: 201

REQUIREMENTS:

- You are free to use any Programming Language or Framework you are comfortable with
- Please include instructions for running the application
- We don't need you to implement any Frontend code
- No need to use any Databases/in-memory Databases. You can use language provided data structures in place of that.
- We expect you to provide Unit Tests for your solution.



ESTIMATED TIME IT TAKES:

Around 2-3 hours

DELIVERABLES

Send us a Zip file that includes your source code, document with instructions for running the application.