**TODO:**

- You should create an **API server**.
- It should implement CRUD (**create, read, update, delete**) operations on a related set of data stored in a database.
- You should be able to deploy the project to the cloud using CI/CD.
    - Pipeline
    - **continuous integration and continuous deployment**
        - There will always be a stable version and the new version must pass all tests and successfully build
- There should be a dozen or more **endpoints**.
    - “an endpoint is simply one end of a communication channel”
    - “An endpoint is a URL pattern used to communicate with an API.”
- Each endpoint as well as all other functions should have **unit tests**.
    - “Unit testing takes source code, data, and testing procedures and executes a computer process that checks the source code's ability to perform its purpose.”
- Each endpoint should be thoroughly documented for **Swagger**.
    - “Swagger is a set of open-source tools built around the OpenAPI Specification that can help you design, build, document and consume REST APIs”

# Meeting Notes

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## Meeting 2: 10/13/23

Problem with the current idea (Rover)

- not sure of getting dozen endpoints
- too board to approach

New Topic Ideas

- Medical related?
    - Use 2D xray images and convert to 3D model
    - telemedicine platform
    - medication management
    - mental health + wellness
- discuss more for new topic
    - 14th 8:30pm

TO DOs

- Schedule New Meeting Time
- everyone commit …
    - 1 Rover research
    - 1 New Topic research
- **George**
    - Rover Diagram Update & database structure
- **Nishma**
    - research on MongoDB
- **Christy**
    - API Research
- **Semi**
    - Meeting Note & API Research

## Meeting 1: 10/6/23

Endpoints

- Video Streaming Video
- Sensory data database
- Users (view/send request permissions)
- Rover (database of rovers and their collected information)
- Telemetry display

Project Final Look

- Rover needs to move to a specified location autonomously
- Send packages to the server as a continuous update as well as a request for its next instruction
- Should have a live video feed
- Telemetry Display
- A user login system
- Live update of rover position

**Timeline**

**Design Documents**

**Diagrams**

**Endpoints**

- Video Streaming
- Sensory data database
- Users (view/send request permissions)
- Rover (database of rovers and their collected information)
- Telemetry display
- Navigation Control
- Package Management
- User Profile & Authentication
- Alerts/Notifications/Feedback

**Product Description**

**Rocket specification sheet: (friendsofamateurrocketry.org)**

**Work Division (for 10/8)**

- Semi
    - Initial commit for README
    - Rough Timeline
- George

    - Rover End-to-End Diagram
    - Project Components Diagram
- Christy
    - Document meeting notes
    - Research (Locomotion? API)
- Nishma
    - Brainstorm more endpoints + uses
    - Research (Streaming?) PDF