

## Project Requirements

- 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 3: 10/20/23

- NEW PROJECT TOPIC: Jack of All Trades --> life skills
  - emergency resources/services, taxes/finances, etc.
- Research
  - creating a database
  - similar platforms like Coursera
  - tools to get information -- data-scraping tools
- Code
  - practice mongodb code
  - front end, back end
  - API server
  - html, css, javascript

### TASKS

- Semi
  - research about scraping, timeline, readme
- Christy
  - endpoints, mongodb/flask and other platform research
- Nishma
  - mongodb test code, research UX/UI
- George
  - diagram/architecture, research AI implementation
- Meet with professor/TA about changing topic
- New meeting time

## 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: \(friendsofamateurocketry.org\)](https://friendsofamateurocketry.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