AeroAspire -SDE Intern Training

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Day4-Week3-Oct10

Learning Topics:

- Documentation & deployment to dev
- Versioning API

Task:

- Write docs (Markdown or OpenAPI)
- Version the API (e.g. v1)
- Test deployment locally

Questions:

1. What's OpenAPI / Swagger? Why document APIs?
   a. OpenAPI is a API description format for REST API
   b. Swagger is a tool built based on OpenAPI.
   c. It is used to test, build, document and design REST API
   d. Documenting the api helps understand them
   e. It is used to mention endpoints, responses and authentication
2. How versioning helps backward compatibility; what versioning strategies exist (URI versioning, header versioning etc.).
   a. Suppose we update a project and we may have to make changes in the REST API
   b. If we version the api the previous users can still use the project with the old version and this helps avoiding conflicts
   c. Backward compatibility means the same, it helps in ensuring that updates don't break existing users
   d. The versioning strategies are:
      i. URL path versioning: e.g., /api/v1/)
      ii. Query parameter versioning (e.g., ?version=1)
      iii. Header versioning (custom or Accept header)
      iv. Media type/content negotiation (Accept: application/vnd.api.v2+json)
3. If deploying to cloud (or staging), what environment configs will you need?
   a. Now current I have done:
      i. Connection between website and backend using CORS
      ii. Documentation,endpoints through swagger
      iii. Testing locally with Postman
   b. Now to deploy properly it requires:
      i. Database connection

   ii.   Authentication

  iii.   API keys maybe for any service