

Read Me File:.....	2
Mission: “.....	2
Objective:	2
Process:	2
Docker Container Setup:.....	2
HTML File Development:.....	2
Pushing to GitHub:.....	2
Challenges and Solutions:.....	3
Results and Learning:.....	3
Overview	3
Significance of Backlog Management.....	3
First Release: Project Initialization and GitHub Setup	4
Process Overview	4
GitFlow Workflow Setup	5
Contributor: Ehsan.....	5
Master (Main) Branch.....	5
Develop Branch	5
Release Branch.....	5
Workflow Efficiency and Collaboration	5
NAME: David Adoh	6
Role	6
Method 1: Using GitHub Website	6
Sign in to GitHub:.....	6
Uploading the COC	7

Read Me File:

Mohamed Amine lasfari: Manger of the group

Mission: Pushing Docker and HTML File to GitHub

Objective: The goal of this task was to successfully upload a Docker container and an HTML file to my GitHub repository. This was aimed at demonstrating my ability to work with Docker and version control systems.

Process:

Docker Container Setup:

I started by setting up the Docker container.

- Base Image: Choose a base image suitable for your project (e.g., FROM python:3.8).
- Copy Files: Use COPY to add project files into the Docker container.
- Install Dependencies: Use RUN for installing necessary dependencies.
- Set Environment: Define working directory (WORKDIR), environment variables (ENV), and expose ports (EXPOSE).
- Run Command: Specify the command to run your application (CMD).
- Build and Test: Build the Docker image and test it locally.
- Documentation: Document setup and usage instructions.

HTML File Development:

- I created an HTML file.

Pushing to GitHub:

- I initialized my local repository using git init.
- I added the Docker and HTML files to the repository using git add.
- I committed the changes with a descriptive message using git commit -m "Added Docker and HTML files".

Finally, I pushed the changes to my GitHub repository using git push.

Challenges and Solutions:

- Difficulty in setting up the Docker environment correctly. For instance, issues with the Dockerfile syntax or configuring Docker to work seamlessly on your local machine.
- Encountered problems with serving the HTML file using the Docker container, such as the HTML file not displaying correctly when accessed through the container.

Results and Learning:

- The files were successfully pushed to GitHub.

Project Management: Backlog Management

Role: Michael - Backlog Management

Overview

As the backbone of our project management strategy, I focused on backlog management to enhance our team's efficiency and adaptability. This role was pivotal in prioritizing tasks, maintaining transparency, and ensuring our project adapted swiftly to changes.

Significance of Backlog Management

- Efficiency: By prioritizing tasks, we maximized our resources and focused on high-impact activities, streamlining our workflow, and boosting productivity.
- Visibility: Maintaining a clear backlog provided a transparent overview of our project's status, fostering communication and accountability within the team.
- Agility: An organized backlog allowed us to quickly adjust to new requirements or priorities, essential for keeping the project aligned with our goals.

Impact

Effective backlog management was crucial for keeping the project on track and ensuring continuous progress. It enabled us to navigate challenges proactively, maintain high-quality standards, and deliver our project successfully. This experience has reinforced the value of structured project management in achieving our objectives efficiently.

First Release: Project Initialization and GitHub Setup

Contributor: Ibtissam Merzouqi

Role: First release

Process Overview

- The initial phase of our project involved setting up a robust foundation for version control and collaborative development through GitHub. Here's how we accomplished this:

1. GitHub Repository Setup: We started by creating a new GitHub repository, establishing a centralized hub for our project's files and version history. This step was crucial for organizing and safeguarding our work.

2. Local Configuration and Version Control: By cloning the repository to our local machine and initiating a Git repository within the project directory, we enabled precise version control. This setup allowed us to meticulously track changes and facilitate effective team collaboration.

3. Committing Initial Changes: We progressed by adding all essential files to the Git staging area and committing them with clear, informative messages. These initial commits served as a baseline, marking the project's starting point.

4. Pushing to GitHub: The final step involved pushing these commits to the remote GitHub repository, synchronizing our local developments with the global project space.

Challenges and Solutions

- **Writing Meaningful Commit Messages:** One of the main hurdles we faced was crafting clear and descriptive commit messages. The importance of this practice cannot be overstated, as it ensures each change is easily understandable and its purpose is clear to all team members. To overcome this challenge, we established guidelines for commit messages that required specificity and context, significantly enhancing our commit log's clarity and usefulness.

Impact of the First Release

- This meticulous approach to setting up and managing our project's first release laid a solid foundation for our development process. It not only streamlined our workflow but also set a precedent for high-quality collaboration and documentation practices. As we moved forward, the lessons learned during this phase regarding clear communication and detailed version control became invaluable assets to our team's efficiency and cohesion.

GitFlow Workflow Setup

Contributor: Ehsan

As part of our project's version control strategy, I have implemented the GitFlow Workflow, emphasizing efficiency, parallel development, and high code quality. Here is a breakdown of how we applied this framework:

Master (Main) Branch

- Role: Serves as the repository's backbone, representing the production-ready codebase.
- Purpose: This branch contains the project's stable version, ready for deployment. It's updated by merging the development branch upon reaching a milestone, ensuring that the production environment always reflects the latest, fully tested release.

Develop Branch

- Role: Acts as the primary hub for ongoing development, integrating the work of all contributors.
- Purpose: Feature branches merge back into development, where the combined updates undergo thorough integration testing. This setup maintains a dynamic yet stable environment for testing new features, fixes, and updates before they are considered for release.

Release Branch

- Role: Functions as a pre-production staging area, fine-tuning the project for the next release.
- Purpose: Originating from the develop branch when it is in a stable state, the release branch undergoes final testing. Upon approval, it merges into both master (main) and develop, ensuring that all branches reflect the latest version slated for release.

Workflow Efficiency and Collaboration

This structured approach to branching and merging facilitates a seamless development process, enhancing our team's ability to collaborate effectively and maintain a high standard of code quality. By segregating tasks within specific branches, we ensure that our project's main codebase remains stable while simultaneously fostering an environment where innovation and experimentation are encouraged.

NAME: David Adoh

Role:

1. Creating and setting up the GitHub repository
2. Uploaded the COC
3. Will be responsible for debugging any future error.

Method 1: Using GitHub Website

Sign in to GitHub:

- If you don't have a GitHub account, you need to sign up for one at GitHub.
- Navigate to Your Dashboard:
- After signing in, go to your GitHub dashboard by clicking on your profile picture in the top right corner and selecting "Your repositories." Create a New Repository:
- On the "Your repositories" page, click the "New" button.
- Fill in Repository Details:
 - Enter a name for your repository in the "Repository name" field.
 - Optionally, provide a description for your repository.
 - Choose between public and private visibility.
 - Initialize this repository with a README if you want to create an initial commit with a README file.
- Click "Create Repository":
- Click the green "Create repository" button to create your new GitHub repository.

Uploading the COC

- Open GitHub Desktop:
 - Open GitHub Desktop and select the repository you want to work with.
- Copy the File to the Repository:
 - Copy the file you want to upload into the repository directory.
- Locally Add and Commit the File:
 - In GitHub Desktop, navigate to the "Changes" tab.
 - You should see the new file listed as an uncommitted change.
 - Check the box next to the file.
- Commit the Change:
 - Add a commit message in the "Summary" field.
 - Click on the "Commit to main" (or your branch name) button to commit the changes.
- Push the Changes to GitHub:
 - Click on the "Repository" menu and select "Push" to push the commit to the remote repository.