

# Docker Assignment



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## Assignment

- Provide a brief overview of the multi-service application you will build.
- Set up a new multi-service application project.
- Create Docker containers for at least three services: a web service, a database service, and a cache service.
- Write Dockerfiles for each service to build custom Docker images.
- Configure Docker networking to allow the services to communicate with each other.
- Create a Docker Compose file to define and run the multi-service application.
- Push your Docker images to a Docker registry (e.g., Docker Hub).

## Requirements

- Docker 20.10 or later
- Docker Compose 1.27 or later

## Note

- Complete the tasks as specified.
- Submit your project in a GitHub repository.
- Ensure your submission is well-documented.
- Include a README file with instructions on how to set up and run your project.

## Deliverables

- GitHub repository link with all source code and documentation.
- README file with setup instructions.
- Well-documented code with comments.
- Screenshots of the application in action.

## Bonus Question

- Implement environment variable management in your Docker Compose file to handle different environments (development, testing, production).