

Pair Programming Interview - Project Ideas

 NOTE: Projects must be started and completed in the interview period. **DO NOT DO THE PROJECT AHEAD OF TIME**

Build a CRUD (Create, Read, Update, Delete) application using Python, Flask/FastAPI, and a SQL Database

- The application should allow users to create, read, update, and delete (CRUD) records in a SQL Database database using a web-based user interface
- The application should be built using Python, Flask/FastAPI and should include proper routing, error handling, and form validation
- The application should be deployed in a Docker container and able to connect to the SQL Database instance running in another container
- The application should include proper logging and monitoring

Building a real-time chat application using Python, Flask/FastAPI, and Redis.

- The application should allow users to send and receive messages in real-time, using a technology such as WebSockets
- The application should be built using Python, Flask/FastAPI and should include proper routing, error handling and form validation
- The application should use Redis to implement real-time functionality
- The application should include proper logging and monitoring

Building a small e-commerce application using Python, Flask/FastAPI, SQL Database, and Redis.

- The application should allow users to browse products, add them to a cart and checkout
- The application should be built using Python, Flask/FastAPI and should include proper routing, error handling and form validation
- The application should include a way to manage products and categories
- The application should use Redis for cart management

Building a small web application that calls an API, using Python, Flask/FastAPI, JavaScript/jQuery, and SCSS/CSS/Bootstrap.

- The application should make a call to an external API and display the result on the page
- The application should be built using Python, Flask/FastAPI and should include proper routing, error handling, and form validation
- The application should use JavaScript/jQuery to make the API call
- The application should be styled using SCSS/CSS/Bootstrap
- The application should include proper logging and monitoring

Building a small frontend application using JavaScript/jQuery, SCSS/CSS/Bootstrap, and a simple API endpoint using Python, Flask/FastAPI.

- The application should make a call to an API endpoint built using Python, Flask/FastAPI
- The application should be built using JavaScript/jQuery and should include proper error handling and form validation
- The application should be styled using SCSS/CSS/Bootstrap
- The application should include proper logging and monitoring
- The application should have a responsive layout