

This take-home exam is designed to allow you to show your technical skills which includes your logical approaches, decision process, coding style, architecture, design patterns, etc,. Therefore this will be assessed and discussed during the interview in support of the working exam results.

EXAM:

Suppose you are to do a simple CRUD web application for a bike rental shop. You want to ensure that the application is secured wherein user needs to login before using the application.

The details are as follows:

1. The shop owner should be able to manage a list of bikes that are for rent with the following details:
 - Bike id
 - Customer name
 - Check out time (rented)
 - Check in time (returned)
 - Total time spent
 - Date modified
2. Roles that are needed within the application:
 - Admin
 - Staff
3. Showcase your server and client side knowledge.
4. Store data of your own choosing.
5. For data access, kindly prepare 2 approaches:
 - a) An ORM using Entity Framework
 - b) Via Stored Procedures