

COMPATIBILITY TEST FOR FRONT-END DEVELOPER

Please find below the coding assignment, as part of your technical evaluation.

We understand that a proper solution to this assignment would take days, but please remember, a perfect solution does not exist! All we are looking for is the approach.

It is said that '*Art Speaks where words fail to explain*', and considering the **software craftsmen** we are -

- Please use this assignment to **portray the wide array or depth of your knowledge which generally won't be visible or even get asked during an interview.** Interviews are constrained by the knowledge of the interviewer and time and many times do not do justice to your knowledge!
- Please see this as an opportunity to showcase your technical, logical, coding talents and creativity in your style and time.
- Like we mentioned above, **a great code would be self-exemplary of your skills and talent and eliminate the need for more evaluation.** We could propel you directly to the final round on its basis.
- Do not feel pressured to provide the "perfect answer". The goal is for you to put forth your skills and give us an idea of how you approach tasks relevant to this role.

"**ShopBridge**" is an e-commerce application. As a part of this app, you need to build functionalities that helps manage different items they would have for sale. This will require a frontend/backend solution.

As a Frontend developer, you would be needing to provide a functional solution that can be used as an user interface for this module.

Frontend Requirements:

- Pick a User Interface Framework that you are comfortable with or interviewing for (Angular, AngularJS, ReactJs, React Native, ASP.NET MVC, Blazor, Any BOT Framework) to:

Create a functionality for the Product Admin, with components that can be used to perform the below actions:

1. Add a new item to the inventory (The item should require a name, description, and price as basic fields, think of additional information that would be useful along with considerations for validations to ensure data sanity.)

2. Modify an item in the inventory.
3. Delete an item from the inventory.
4. Lists the items in the inventory.
 - The data needs to be fetched via APIs from a backend application.
 - All API calls should be asynchronous and not cause any full-page reloads.
 - Consider usability in terms of navigations.
 - Ensure Responsiveness
 - Do include data validations as and when needed.
 - Exception handlings need to be present.

Consider this to be just an elementary starting point to get you going and is much smaller compared to the expanse of your knowledge!

Please feel free to demonstrate the width and creativity of your coding with the handling of functionalities like business validations, image processing, stock manipulation, categories, search, etc. along with technical pieces like exception handling, pagination...

Tracking:

Please do your best to keep track of how long you spend on the implementation of each of them, this is for self-timing and to determine estimation accuracy.

1. Frontend functionality
2. Frontend presentational aspects (styling, DOM, etc)
3. Required Validations
4. Unit Test Coverage

Deployment Requirements:

1. The code should be shared via GitHub, BitBucket, or SourceTree holding all relevant code.
2. Do ensure it's a deployment-ready code that can be published to a production server.
3. Assume the backend APIs would be created after UI has been designed based on UI requirements. Please assume mock data to proceed.

Great Add-on to have:

1. Simple and minimal design, you can use a theme you are comfortable with.
2. Code Coverage of 90% (using any Code Coverage Tool like PyUnit, MSUnit, NUnit, XUnit, etc.)
3. Clean Code Readability
4. Supporting relevant documentation (detailed steps to run with screenshots, breakdown of time spent on different aspects of development).

IMPORTANT NOTE - DO NOT send an invite to collaborate. Add the deliverables in PUBLIC REPOSITORY in **Github, Bitbucket, or SourceTree** and send the LINK to the following email IDs -

- **Primary - Pranavi.weginwar@thinkbridge.in**