

FULL-STACK DEVELOPER SCREENING EXERCISE

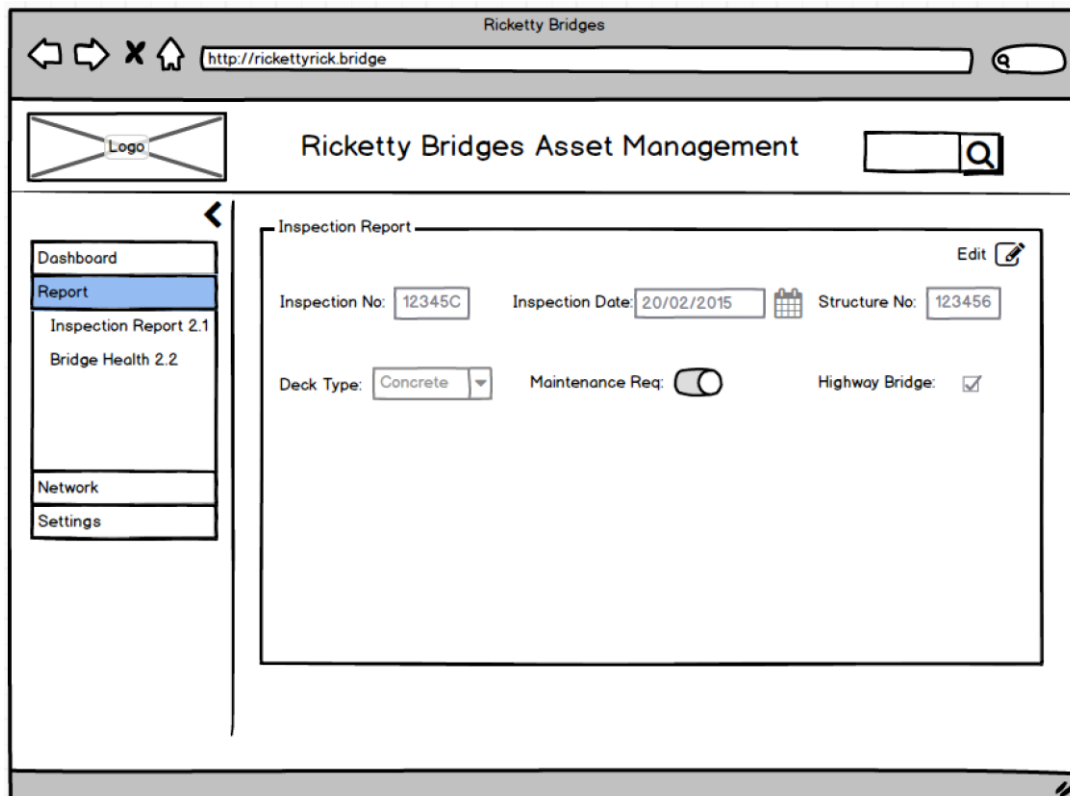
The purpose of this exercise is to provide a brief insight into your personal development style and capabilities. As a general guide, it should take no more than a few hours of your spare time. Please contact your recruiter if you are unable to return a solution in the agreed timeframe.

Project Details

- Build a simple asset management inspection web app prototype for Ricketty Bridges Asset Management.
- The web app should communicate with a REST API implemented in .NET, .NET Core or NodeJS.
- The web app can mock visual elements not directly related to the user stories described below.
- The API can use in-memory persistence or persist to a local data-store of your choosing.
- The API should be pre-loaded with reference/lookup data and at least one mock/sample asset.
- You may use any modern front-end framework e.g. Angular2, AngularJS, Aurelia, ReactJS, ASP.NET MVC, ASP .NET Core.
- Demonstrate evidence of package managers & loaders e.g. NuGet, NPM, Bower, Webpack, JSPM, RequireJS, SystemJS.
- Ensure you include a README.md explaining anything that we may need to know about your solution.
- Bonus: Unit Tests of any flavour, anywhere across the stack!

USER STORY 1.1

As an asset manager, I can view a simple form in a web app displaying details about an asset that I manage.



The mockup shows a web browser window titled "Ricketty Bridges" with the URL "http://rickettyrick.bridge". The page header includes a "Logo" placeholder and the title "Ricketty Bridges Asset Management" with a search icon. A left sidebar contains a menu with "Dashboard", "Report" (highlighted), "Inspection Report 2.1", "Bridge Health 2.2", "Network", and "Settings". The main content area is titled "Inspection Report" and features an "Edit" button with a pencil icon. The form contains the following fields and controls:

- Inspection No:
- Inspection Date: (with a calendar icon)
- Structure No:
- Deck Type: (with a dropdown arrow)
- Maintenance Req: ☐
- Highway Bridge: ☒

USER STORY 1.2

As an asset manager, I can edit and save details for an existing asset that I manage.

The screenshot shows a web browser window titled "Ricketty Bridges" with the URL "http://rickettyrick.bridge". The page header includes a "Logo" and the title "Ricketty Bridges Asset Management" with a search bar. A left sidebar contains a navigation menu with "Dashboard", "Report" (highlighted), "Inspection Report 2.1", "Bridge Health 2.2", "Network", and "Settings". The main content area is titled "Inspection Report" and features an "Edit" button with a pencil icon. The form contains the following fields: "Inspection No:" with value "12345C", "Inspection Date:" with value "20/02/2015" and a calendar icon, "Structure No:" with value "123456", "Deck Type:" with a dropdown menu showing "Concrete" (selected) and options "Steel", "Sealed", "Wood", and "Earth", "Maintenance Req:" with a toggle switch, and "Highway Bridge:" with a checked checkbox. At the bottom right are "Clear", "Delete", and "Submit" buttons.

USER STORY 1.3

As an asset manager, I can upload an image for an existing asset that I manage.

This screenshot is identical to the previous one, but with an additional section below the form fields. It is titled "Upload an image." and contains a "Choose file" button, a text input field with the placeholder "choose file", and "(max 2MB)" to its right. The "Clear", "Delete", and "Submit" buttons remain at the bottom right.