

## Part 1:

**Mission** (should you choose to accept): Create a user interface based on the information provided from start to finish in your stack of choice.

**Problem Statement:** A client has asked us to solve a problem for them. They are gathering a lot of information about issues at their buildings (i.e. "Hole in the wall", or "Carpet needs to be replaced"). In order to prioritize and budget for these issues they want to provide their field technicians a tool to **estimate the cost of repair**. What they asked for was a simple interface to build an estimate on the fly. The business requirements were not very detailed, so we have some design liberties. They DID say that they need to distinguish between Material Costs, Labor Costs, and All Inclusive costs, and that a project could have one or many of these "line items".

**Success Criteria:** Fulcrum representative can open/access a clickable user interface that demonstrates your abilities as a front-end developer.

### Assessment Criteria:

- Overall process to achieve a UI/UX that someone would use
  - How do you communicate?
  - How do you gather more information/feedback?
  - How do you present ideas around UI/UX?
  - How do you collaborate?
- Overall design
  - Styling principles and attention to detail
  - Usability
  - Efficiency
  - Responsiveness (if necessary)
- Overall Code Quality
  - Cleanliness
  - Organization
  - Implementing best practice

**Constraints:** None - solve the problem the way you would in the real world. Use any tool, framework, library, code-base, etc. (Hint: Don't reinvent the wheel! We're looking for general skills and instincts...if it takes you 1 hour or 1 week, it won't benefit you either way, the final product is all that matters). With one exception - don't plagiarize!

**Details:** There is no need to tie to existing data architecture, so you can hard-code a sample data set, or store data locally in your application to retain the experience (it does NOT have to persist for this exercise). We should allow the field technicians to create a new estimate, add/edit line items, and show a total as the estimate is built. Hitting "Create Estimate" will begin your mission and "Save" will mark the end of your mission. If you require any other details or desire to collaborate in any way on design, please email [jon.hill@fulcrumcollaborations](mailto:jon.hill@fulcrumcollaborations), or schedule a 30 minute discussion to ask questions and collaborate.

Good Luck!

Part 2:

Please review the screenshot of a page in our application. Provide some ideas of what you would do to improve the interface. No ideas are bad. We are looking for quality of suggestions over quantity. Try to provide at least three suggestions and no more than 10. You can list, sketch, or mark-up this page. No need to “re-design”, we’re looking for instinct and attention to detail

Training Site

MAINTENANCE PRESCRIPTIONS

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This page provides a single place to manage all custom work scripts for standard operating procedures and preventive maintenance at your site. Note - to customize the default preventive maintenance prescriptions for assets at this site using customized preventive maintenance scripts, click [here](#).

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<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Archive</a> <a href="#">View WOs</a> <a href="#">View CRTs</a>	SMOP   Pre-Commencement Script   TS			SMOP	
<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Archive</a> <a href="#">View WOs</a> <a href="#">View CRTs</a>	SMOP   testing addtl   TS			SMOP	
<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Archive</a> <a href="#">View WOs</a> <a href="#">View CRTs</a>	additional script   TS	Quarterly Generator - Remote Radiator PM	testing	N/A	Quarterly
<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Archive</a> <a href="#">View WOs</a> <a href="#">View CRTs</a>	Annual Test   TS	Annual Battery String (Wet Cell) Maintenance		MOP	Annual
<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Archive</a> <a href="#">View WOs</a> <a href="#">View CRTs</a>	BCC Semi-Annual Chiller Maintenance   TS			MOP	Semi-annual
<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Archive</a> <a href="#">View WOs</a> <a href="#">View CRTs</a>	Gen Monthly PM   TS	Monthly Power Distribution Units (PDU) Inspection PM		N/A	Monthly
<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Archive</a> <a href="#">View WOs</a> <a href="#">View CRTs</a>	generator monthly   TS	Quarterly Engine and Generator Maintenance PM		N/A	Quarterly
<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Archive</a> <a href="#">View WOs</a> <a href="#">View CRTs</a>	Increased Freq Demo   TS		asf	MOP	Quarterly
<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Archive</a> <a href="#">View WOs</a> <a href="#">View CRTs</a>	Klingon Removal   TS		Use of toilet brush to boldly go where nobody has before and search for Klingons	N/A	Weekly