BMSE - Application development

Proposal and Estimates

Overview

BMSE is an application for machine analysis and comparison. It is about to be developed from the scratch, relying on initial mockups and client inputs.

Basic Solutions

Analyzing mockups provided by the client we identified phases and features:

- Preparation phase (onboarding, getting to know the requirements)
- Endpoints (JSON inputs and outputs)
- SignUp
- SignIn
- Change/Reset password
- Forgot Password
- User Management (Admin and User itself)
- Dashboard
- Application Container
- Referencing Machines Management
- Analytics and Comparison
  - Geometry
  - Materials
  - Control-Circuit
  - Environment
  - Mechanics
  - Single Load Point
  - Mechanics
  - Performance
- Evaluation (Every week)
- Deployment
- Maintenance

Common Assumptions

- All phases/features require QA
- All phases/features require one or two front-end developers

- All phases/features assume weekly client reviews of the work done
- The client is going to provide all API endpoints so we are developing front-end part
- The design is not needed here so we will just follow good UX practices using one of the component frameworks
- To avoid waiting for the endpoints we will first define JSON inputs and outputs and work with mockups initially

Estimates

Phase	Note	Time Estimate (Developer Days)	Cost (EUR)
Preparation Phase	Discussion with clients, selecting the libraries for common components, charts, making boilerplate of the app	3	840
Endpoints	Input and Output JSON	4	1 120
SignUp		2	560
Sign In		2	560
Password Change/Reset		2	560
Forgot Password		2	560
User Management		5	1 400
Dashboard	With report generation. If we need advanced features like managing dashboard UI by the user (drag-drop, personalization, etc) this estimate might change	4	1 120
App Container		2	560
Machines Management		4	1 120
Analytics and Comparison		15	4 200
Real Endpoints Integration	Wiring and Testing	5	1 400

Evaluation	Periodically 1-2 hours a week	2	560
Deployment and Testing		3	840
Maintenance	This part will be arranged later		
TOTAL		**54**	**15 400**

Notes

- Estimates here are rough based on available information and could vary depending on additional refinement of the features.
- If changes for the specific feature are significant we will re-estimate that feature
- In case of waiting for some information or API development, a total number of days can be increased
- We will do a consulting for the client to reach the optimal results