Ectalyst - Candidate Search

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Front End

Font end will be built using angular by utilising the angular-cli for rapid application development (RAD). Styling will be provided by bootstrap and any custom CCS components provided by the UX team.

The application will contain 2 core pages:

- Login
- Search

Will be built using HTML5 standards.

Back End

Back end will be built using NodeJS as a lightweight server framework. The [ENTER TEXT] queries will be stored in MongoDB for fast query reading. We will store the user identities also in MongoDB to simplify the estate.

Security

The login process will be secured by using JWT using HMAC + SHA256 algorithm. Users password will be salted & hashed using PBKDF2.

The MongoDB instance will have encryption at rest enabled and IP firewall restricted to only the NodeJS server.

The application will be hosted on HTTPS only.

Infrastructure

The application will be hosted on a Platform as a service (PaaS) provider. This will be either Amazon Web Service or Microsoft Azure.

Hours

For easy estimating the work required has been broken down into the features below. These features assumes that all design work has been completed and all resources (Images, Text, Queries, etc.) have been provided :

- Login Feature (Login Page, JWT Setup, Account backend) - 4 days
- Search Feature (Search Page, Query backend) - 2 days
- Reset Password Feature (Reset Password Page, Email, Backend) - 2 days
- Testing - 2 days
- Infrastructure Setup - 1 day

Costs

Standard market cost of £300p.d equates to:

Dev Cost: 11 x £300 = £3,300

The estimated first year of Infrastructure cost equates to:

App Service x2 : (£68.01 * 2) * 12 = £1,632.24
MonogoDB Instance: £17.60 * 12 = £211.2

Infra. Total = £1,632.24 + £211.12 = £1,843.36