MEAN Marketplace

System Design Document

Version 0.1

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# Technology Stack

|  |  |  |
| --- | --- | --- |
| Technology Need | Current State | Future State |
| Operating system | Ubuntu Server 14 | — |
| Virtualization (type 1 hypervisor) | Amazon Web Services | — |
| Virtualization management | Vagrant | — |
| Application server | NodeJS 0.10.36 | — |
| Web server | NodeJS 0.10.36 | — |
| Document mapping & persistence framework | Mongoose | — |
| Database | MongoDB 2.6.8 | — |
| Version control | Git |  |
| Build management | Grunt 0.1.13 | — |
| Continuous integration tool | Jenkins | — |
| Build artifact repository | Github | — |
| Development framework | MEAN | — |
| Development IDE | Sublime | — |
| HTML | 5.0 | — |
| CSS | 3.0 | — |
| JavaScript toolkit | AngularJS/ExpressJS | — |
| Primary deployment language | Javascript | — |

# User Centered Design Artifacts

## Personas

![](data:application/pdf;base64,)

![](data:application/pdf;base64,)

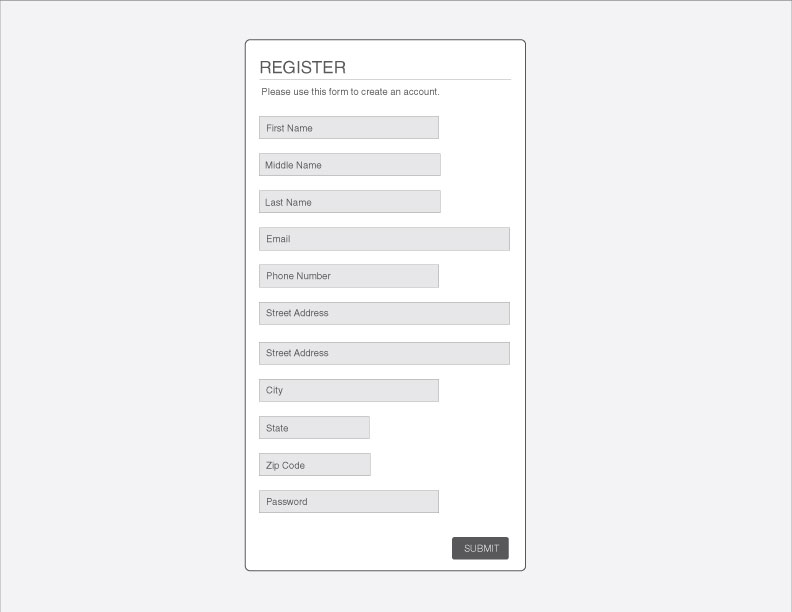
## Workflows

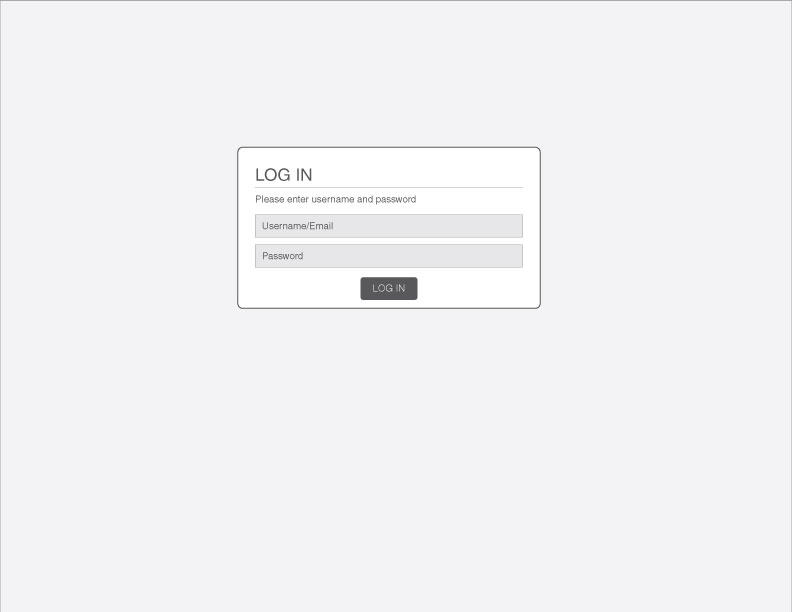
![](data:application/pdf;base64,)

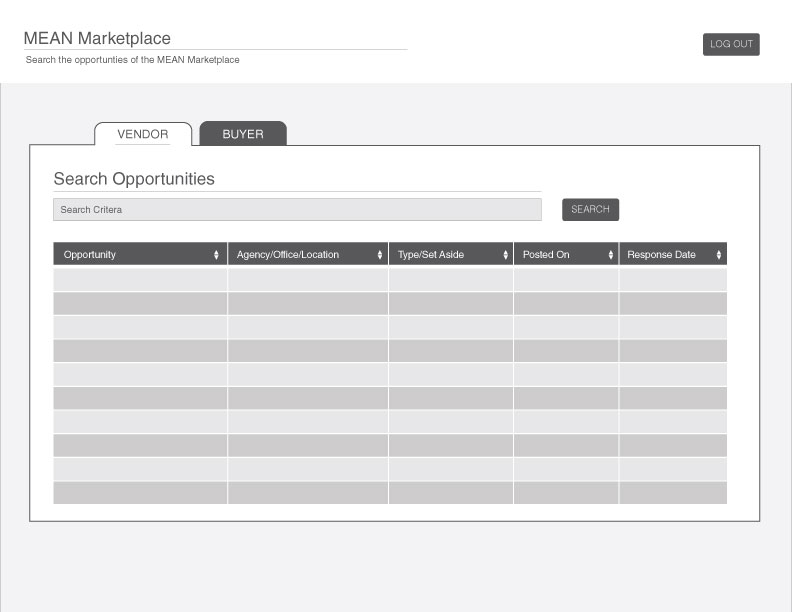
![](data:application/pdf;base64,)

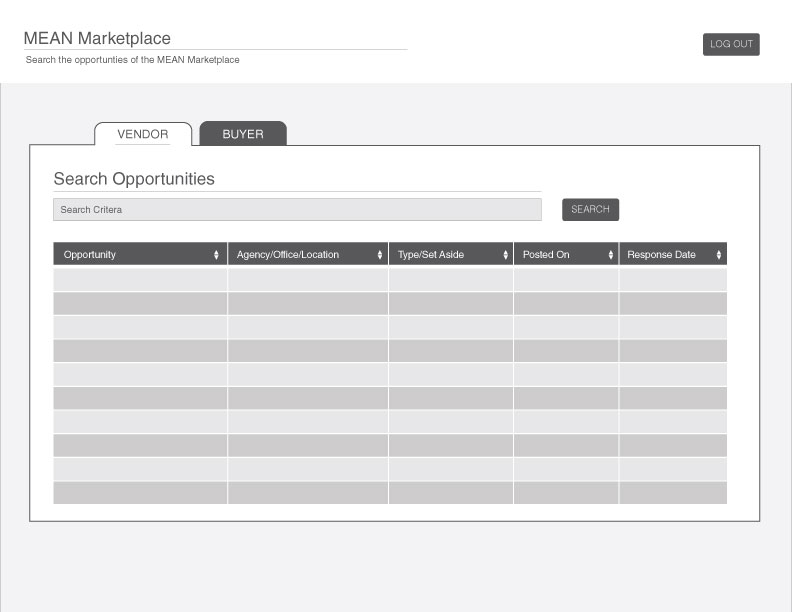
# UI Design Artifacts

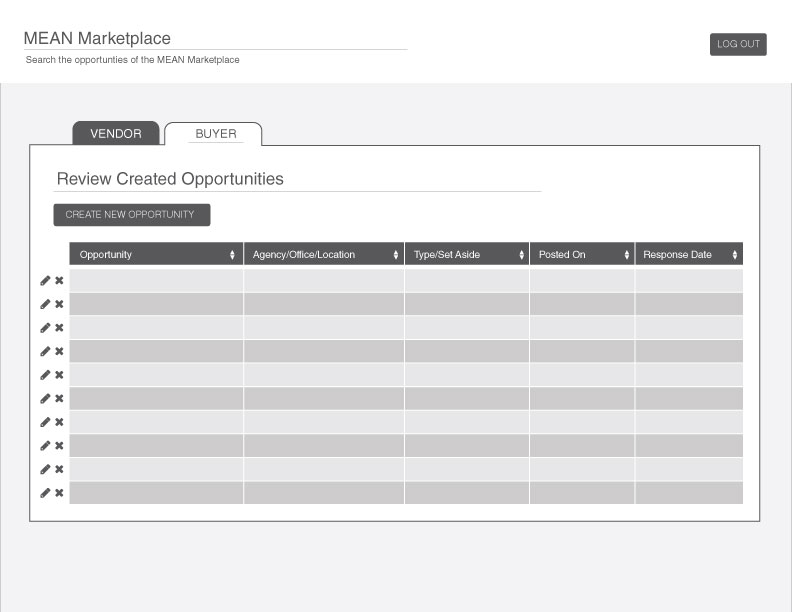
## Grayscale Wireframes











# System Solution Architecture

![](data:application/pdf;base64,)

# Database Schema

## User Profile

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | Type | Restrictions | Comments |
| firstName | String | Required | First Name of User |
| middleName | String |  | Middle Name of User |
| lastName | String | Required | Last Name of User |
| email | String | Required,Unique | E-mail serves as Login Id |
| password | String | Atleast six characters long | Encrypted |
| address | String | Required | Street Address of User |
| city | String | Required | City of User |
| state | String | Required,Max 2 chars | State of User |
| zip | String | Required | Zip code of User |
| phoneNumber | Number |  | Phone Number of User |

## Opportunity

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | Type | Restrictions | Comments |
| opNumber | String | Required, Unique | Opportunity Number |
| opTitle | String | Required | Opportunity Title |
| opType | String | Required | Opportunity Type |
| opDesc | String | Required | Opportunity Description |
| setAside | String |  | Set Aside |
| opStatus | String | Required | Opportunity Status |
| publishedDt | Date |  | Published Date |
| respDueDt | Date |  | State of User |
| createdBy | String | Required | Created by |
| createdDt | Date | Required | Created Date |
| modifiedBy | String |  | Modified by |
| modifiedDt | Date |  | Modified Date |
| perfPlace | String |  | Place of Performance |
| primaryContact | String | Required | Primary Point of Contact |