USER MANAGER

INTRODUCTION

User manager is a tool to manage all the users of the application. Managing the users include creating, editing, deleting and activation/deactivation.

MODULES

The main modules of the User Manager include the following

1. DOM handler – Handles all the DOM events (View part)
2. User Manager – Controls the data between the database and user interface (Controller)
3. Storage Ops – Handles all the data related to users (Model). The database currently in operation is Local Storage. Local Storage is HTML5 web storage API used to store data in the form of key value pair. To know more about local storage, follow this link. In future, this module can be extended to used IndexedDB or a full-fledged relational database via a RESTful framework.

CONTROL FLOW

The control flow and data flow are as shown in the figure below

All the operations are initiated from the DOM (View). The DOM handler takes care of handling the operations and delegates it to appropriate action in User Manager Module.

The user manager which is the controller, controls the flow of data and action between the view and database. Once the user manager receives the action from DOM, it validates the action parameters and triggers appropriate action in Storage Ops.

The storage ops module communicates with the data store and performs the operation requested by the User Manager. Once the operation is complete, storage ops will respond to the user manager with the status of the operation. The User Manager in-turn forwards the status to the DOM handler. Once the DOM handler receives the status, it displays the status of the operation to the user.

PROJECT STRUCTURE

UserManagement

- src
  - docs (Contains jsdoc documentation)
  - fonts
  - html
  - images
  - sass
    - common
    - modules
    - themes
    - vendor
  - scripts
    - modules
    - vendor
- dist
  - assets
    - images
  - css
  - scripts
    - modules
    - vendor
- node_modules
- .bowerrc
- gulpfile.js
- package.json
- readme.md

REFERENCES

- http://usejsdoc.org/
- https://www.npmjs.com/package/gulp-jsdoc
- http://requirejs.org/
- http://www.kryogenix.org/code/browser/sorttable/ - I have used this library for sorting tabular data
- https://en.wikipedia.org/wiki/Web_storage#localStorage