Crowd Journalism Platform

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**One liner**

Online collaboration platform to collect and asses sources, establish facts and present timeline visualizations.

**Key Design Considerations**

* Modern UI
  + utilize direct input methods:
    - refrain from save buttons but save data directly
    - drag and drop
  + Reduce context switching
  + Reduce clicks
  + Natural text interface instead of itemized data entry.
  + Multi User Environment
    - Seamless real time cooperation using state subscriptions
* Minimized Functionality Methodolgy
  + Only provide functionality that is clear to large majority of users instead of catering to power users.
* Strict Separation of Concerns
  + Separate UI from API
  + Modularize back end
  + Abstract Data Model : separate business logic from data model
* Single source of truth
  + use ‘one stop shop’ parameter files instead of definitions spread out over multiple files.

**Wireframe Conceptual Design**

**Login**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | Username <…>  Password <···>  [x] Remember me  **[Login]**  [Create New Account ] |  |
|  |  |  |

**Welcome**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | $Account.Name [My account] [log out] |  |
|  | Select Project   * [List projects]   [New Project] |  |
|  |  |  |

**Workspace**

|  |  |
| --- | --- |
| $Project.Name [Switch Project] $Account.Name [My account] [log out] | |
| Toolbar [Toggle SourceNavigator] [Toggle AccountNavigator] [Toggle FactNavigator ] [Toggle NavigatorDrillDown] | |
| **Navigators** | **NavigatorDrillDown** |

**Toolbar**

Toggle SourceNavigator : Show/Hide list of available sources.

Toggle FactNavigator : Show/Hide time line of facts

Toggle AccountNavigator : Show/Hide list of accounts

Toggle NavigatorDrillDown: Show/Hide list the entity details for the currently selected

**Navigators**

The navigators provide list overviews with filter options for the given entities. Their horizontal size can be modified by dragging their the vertical line separating them.

SourceNavigator will provide a list of sources.

* Input options
  + Quick toggle to add/remove source from project
  + Multi select tools to manage labels and toggle to add/remove source from project
  + Sources can be dragged to facts to add sources to facts
* Filter options:
  + Added to project (true/false)
  + text
  + labels
  + period
* Drill down
  + Clicking on a source will open the source details and input options in the NavigatorDrillDown

FactNavigator will provide a chronological ordered list of facts.

* Input options:
  + Text Mode
    - a single line input for Title.
    - a date pick input for period
    - a list of references sources
      * an indicator if no sources are provided)
      * sources can be drag & dropped here
      * clicking on a source will drill down on that source
  + Visualization Mode
    - Horizontal / Vertical Timeline
    - Show Year/Month labels
    - Format options based on Labels
    - More.. (Future extensions)
* Filter options
  + Text
  + Labels
  + Period

AccountNavigator will provide a list of accounts

* Input options
  + (group)admin : Multi select tools to add/remove account from project
* Filter options
  + Added to project (true/false)
  + text
  + labels
  + project
* Drill down
  + Clicking on an account will open the account details and input options in the NavigatorDrillDown

**NavigatorDrillDown**

The NavigatorDrillDown will provide entity details and input options for the current selected entity. It will always appear on the rightmost side.

**Data Model**

* Entity
  + id
  + title
* Label : Entity
  + Color
* Group : Label
* Account
  + Email
  + username
  + password(hash)
  + Access: Group -> (Member/GroupAdmin)
* Source : Entity
  + file
  + properties{}
  + labels[]
  + permissions: Group -> (Read/Write/Remove)
* Project : Label
  + permissions: Group -> (Read/Write/Remove)
* Fact : Entity
  + date/period
  + project
  + sources[]
  + labels []

**Architecture**

* Server
  + Router
    - Serve front end HTML/CSS/JS files to client
    - Handle API requests from client
      * REST API based on entity queries
  + Data Handler
    - Validate requests with defined data model
  + Subscription Handler
    - Handle session login/logout
    - Communicate state changes to subscribed entities
  + Storage Handler
    - Use abstract storage interface
    - Store source files
    - Store entity data