DEVELOPER GUIDE

Abstract

This guide lists the updated files and folder, UML diagrams and future enhancements for the project features Maps and Timeline.
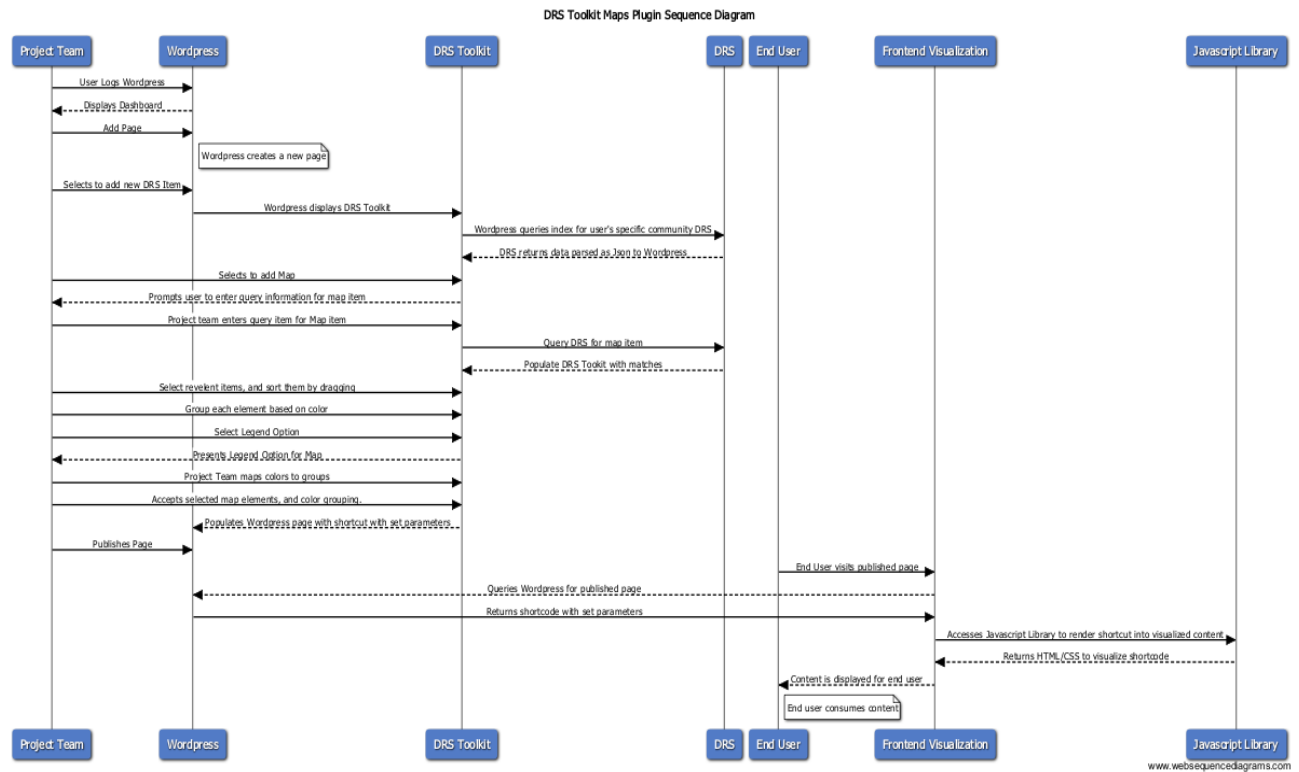
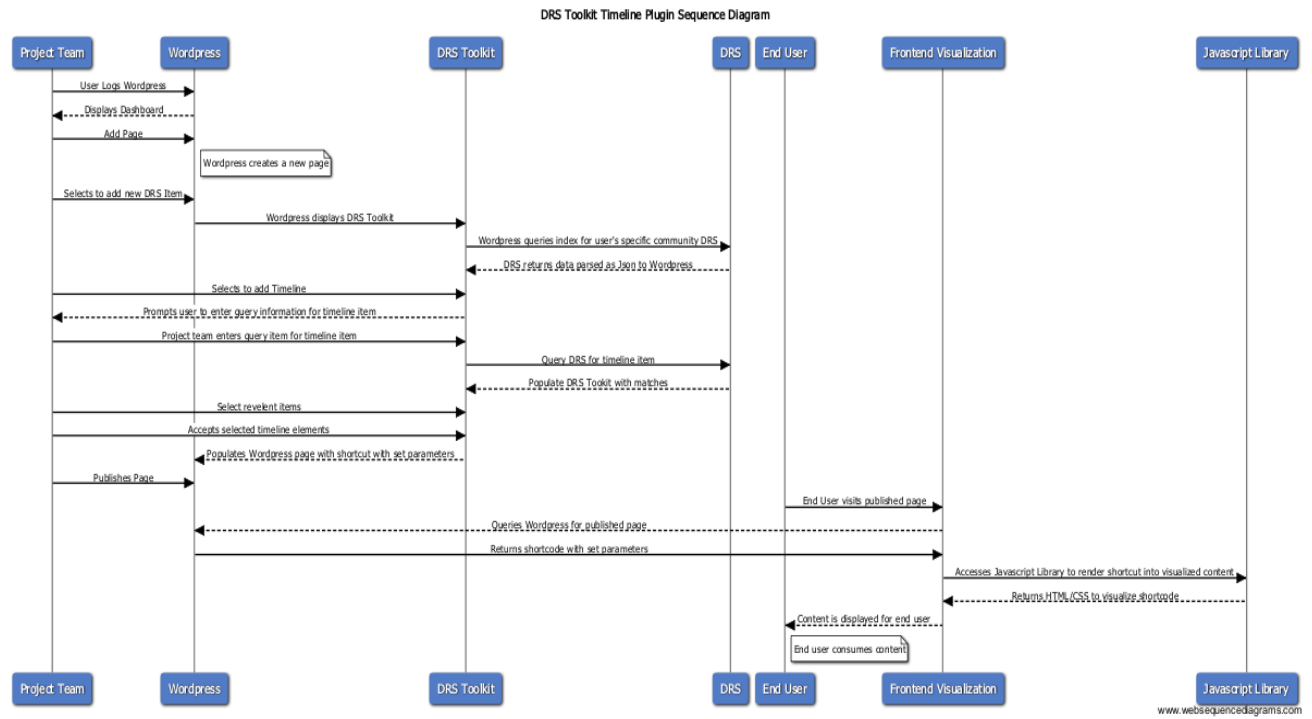Dharam Maniar, Jorge Delgado, Sritharan Babu, Harshad Sathe

UML Diagrams

As part of the academic project, we developed a sequence diagram and class diagrams for Maps and Timeline functionalities.
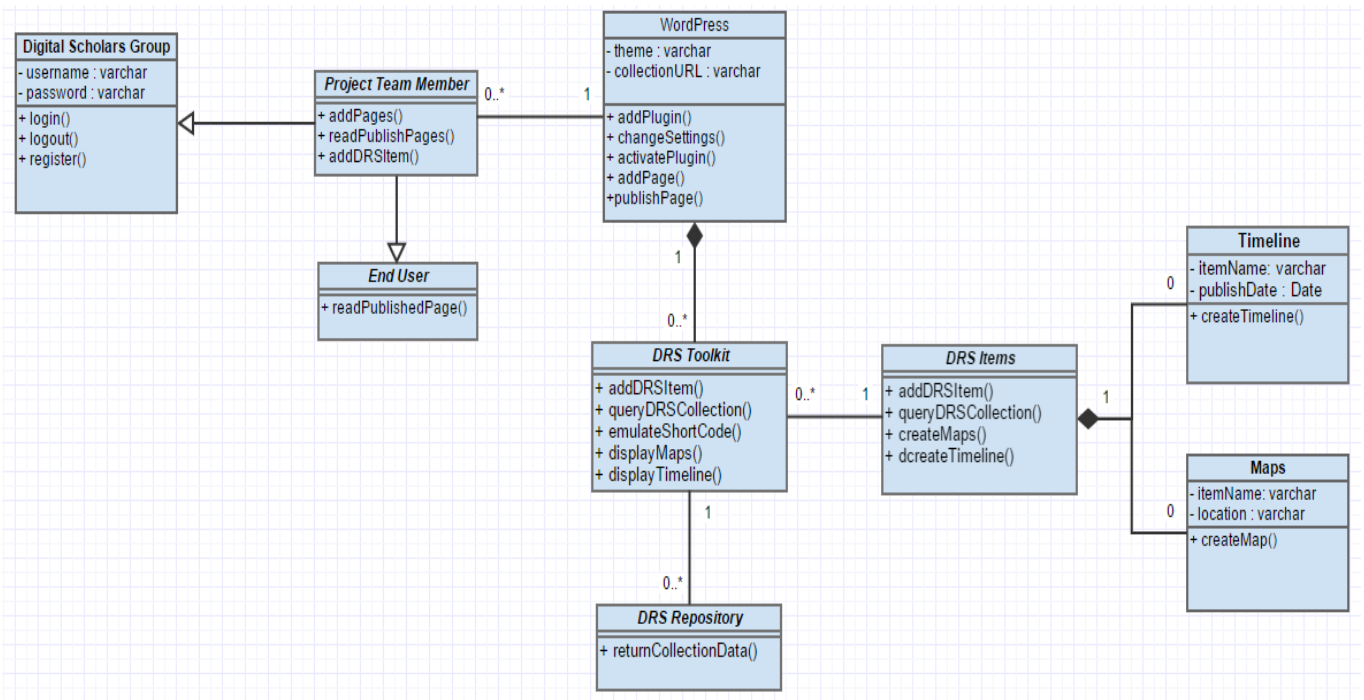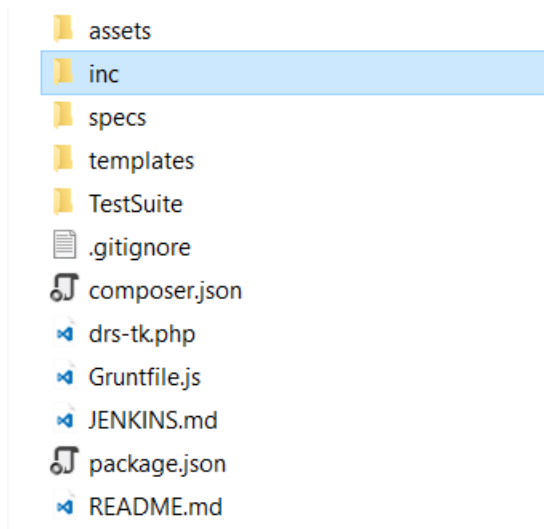
Sequence Diagrams

Maps

DRS Toolkit Maps Plugin Sequence Diagram

Timeline

DRS Toolkit Timeline Plugin Sequence Diagram

Project Team | Wordpress | DRS Toolkit | DRS | End User | Frontend Visualization | Javascript Library

- User Logs Wordpress
- Displays Dashboard
- Add Page
- Wordpress creates a new page
- Selects to add new DRS Item
- Wordpress displays DRS Toolkit
- Wordpress queries index for user's specific community DRS
- DRS returns data parsed as Json to Wordpress
- Selects to add Timeline
- Prompts user to enter query information for timeline item
- Project team enters query item for timeline item
- Query DRS for timeline item
- Populate DRS Toolkit with matches
- Select revelent items
- Accepts selected timeline elements
- Populates Wordpress page with shortcut with set parameters
- Publishes Page
- End User visits published page
- Queries Wordpress for published page
- Returns shortcode with set parameters
- Accesses Javascript Library to render shortcut into visualized content
- Returns HTML/CSS to visualize shortcode
- Content is displayed for end user
- End user consumes content

www.websequencediagrams.com

Class Diagram

Digital Scholars Group
- username : varchar
- password : varchar
+ login()
+ logout()
+ register()

Project Team Member
+ addPages()
+ readPublishPages()
+ addDRSItem()

WordPress
- theme : varchar
- collectionURL : varchar
+ addPlugin()
+ changeSettings()
+ activatePlugin()
+ addPage()
+ publishPage()

End User
+ readPublishedPage()

DRS Toolkit
+ addDRSItem()
+ queryDRSCollection()
+ emulateShortCode()
+ displayMaps()
+ displayTimeline()

DRS Items
+ addDRSItem()
+ queryDRSCollection()
+ createMaps()
+ dcreateTimeline()

Timeline
- itemName: varchar
- publishDate : Date
+ createTimeline()

Maps
- itemName: varchar
- location : varchar
+ createMap()

DRS Repository
+ returnCollectionData()

0..* | 1 | 0..* | 1 | 1 | 0 | 0

Folder Structure

assets
inc
specs
templates
TestSuite
.gitignore
composer.json
drs-tk.php
Gruntfile.js
JENKINS.md
package.json
README.md

Updates in assets folder:

- **Maps:** Added the leaflet JS and also added a map.js file to display maps and plot items on the map. We have also added a leaflet.css under css folder
- **Timeline:** Added the Timeline JS and also added a timelinepage.js file to display timeline and plot items on the timeline. We have also added a timeline.css under css folder

Updates in inc folder:

- **Maps:** Added map_shortcode.php to handle shortcode generation logic for Maps functionality
- **Timeline:** Added timeline_shortcode.php to handle shortcode generation logic for Timeline functionality.

Added a TestSuite folder:

It contains all the required drivers and selenium libraries required for UI testing. README.md file contains setup steps.

Test-suite-maps.py – Is the UI test suite for maps

Test-suite-timeline.py – is the UI test suite for timeline

Unit testing using Jasmine:

Added s**pecs** folder for both maps and timeline unit test cases along with required supporting setup documentation.

Continuous Integration:

Jenkins installers and setup documentations are provided.

Next Steps / Future Scope

Merged Upstream Project Code Base

- Easy for the Client / Developers to merge our feature set

Extend Test Framework

- Document Provided
- Unit Test Suite
- UI Selenium Test Suite

Continuous Integration - For entire Project

- Jenkins Setup Documentation provided

Further Improvements

- Index Refactoring for the loading items from the DRS repository