The application starts loading the ExtSJ and OpenLayers libraries (the openlayrs source code was modified, therefore the library was recompiled and is available In OpenLayers\myOpenLayers.js)

The php/api.php is called, this set up the communication between the client and the database

The app/controller/bsg.js is called, this contain variables and functions that will be used by the application

The app.js is called; this set the user interface and initializes the application

A loader animation starts to inform the user the application is loading

The app.js file:

* assign the namespace for the project (BSG)
* create automatically the user interface viewport
* load controllers, models and stores ( the application uses a Model-View-Controller structure, controllers contains the logic, models and stores contains data, views store the user interface)
* When the page is ready and all of the JavaScript has loaded, the Application's launch function is called and the viewport is created
* The Application's launch function set the proxies for database communication and the UI and finally destroys the loader animation

The \app\view\viewport.js is the main file that builds the UI calling all the files inside the \app\view directory. \app\view\viewport.js is called automatically by app.js when the application initializes

The \app\controller\Main.js contains the main logic that drives the application:

* activate the communication with the server
* set the validation types
* set the UI templates
* bound the controller to the views
* initialize the OpenLayers map

The app\controller\Graphs.js:

* set the application logic for graphs and reports

The app\controller\Manage.js:

* set the application logic for layout themes

The app\controller\graphDataGenerator.js:

* was used during development to create graphs with random data