**Alcon Development Guide**

**Pre-requisites:** Eclipse IDE for Java EE, JDK 8, Git, Node.js configured with Gulp, Bower pacakges, Visual Studio Code, MySQL, WildFly 10

**Code structure:**

1. **Java:**

Packages:

1. com.auth – Contains classes required for ADFS using Spring security
2. com.controller – Contains classes for REST API which are the entry point for all requests
3. com.bo – Contains the business login and is accessed through the controller
4. com.dao – Contains the classes for accessing data objects using SQL and Hibernate queries.
5. com.interceptor – Contains boilerplate code for Spring framework
6. com.model – Contains entities / model classes mapped with database tables
7. com.scheduler – Contains classes for cron scheduler
8. com.services – Contains boilerplate code for initializing the web application
9. com.util – Contains generic utilities for use throughout the code.
10. **AngularJS + HTML:**

Folders:

1. src/app/view/actualsBudget
2. src/app/view/assignPM
3. src/app/view/dashboard
4. src/app/view/dashboard\_DM
5. src/app/view/dashboard\_DUH
6. src/app/view/delegation
7. src/app/view/effort
8. src/app/view/employee
9. src/app/view/initiateConf
10. src/app/view/login
11. src/app/view/onScreenReport
12. src/app/view/OpportunityManagementSystem
13. src/app/view/projconfig
14. src/app/view/project
15. src/app/view/projectBudgetSystem
16. src/app/view/projectManagement
17. src/app/view/revenueManagement
18. src/app/view/roleManagement
19. src/app/view/seatManagement

**Base configuration required inside code:**

**For UI:**

1. In /app/common folder, http\_Service.js file includes the API URL that is used by the application.

The variable HttpFactory.baseUrl contains this URL. It needs to be changed as per the deployment server.

1. In /app, index.html fils contains the tag <base al="/"> Add the application name as “/name/” here if it is deployed at non-root level e.g. “/CssCorp/” for <http://127.0.0.1:8080/CssCorp>
2. For <https://alcon.csscorp.com> leave this value as “/”
3. After these changes are verified, use “**gulp build**” command to generate UI code.
4. The final UI code will be located in **/dist** folder
5. Move this code to **views** folder in Java project. Replace all cappontents

**For Java:**

1. In applicationContext.xml, configuration for FTP folders, database connection, etc is stored as per Spring profile.
2. Spring profiles defined in the Application Context are “dev”, “test”, “uat”, “demo”, “prod”
3. Configure the ones which you need and make sure “spring.profiles.active=<profile name>” variable is set in the WildFly server.
4. In views/WEB-INF, open the jboss-web.xml and check the <context-root>/</context-root> tag. Similar to #2 in UI steps, change it to the /name/ as per the deployment name of the application. E.g. “/CssCorp/” for [http://127.0.0.1:8080/CssCorp and “/](http://127.0.0.1:8080/CssCorp%20and%20)” for <https://alcon.csscorp.com>
5. Spring security configuration for ADFS is already done in the Application Context for “prod” profile.

**Module-wise code structure:**

1. **Login:**

**UI and Java flow:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| File Path | Function | API | Java Controller | Java Method | Stored Procedure (If any) |
| src\app\view\login | onloadLogin | user/authenticate | com.controller.user | authenticateUser() |  |
| src\app\view\login | checkLogin | user/login | com.controller.user | getLogin() |  |

1. **Dashboard**

**UI and Java flow:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| File Path | Function | API | Java Controller | Java Method | Stored Procedure (If any) |
| src\app\view\dashboard | getProjectList | project/list/' + vm.userDetails.loginId + '?role=' + vm.userDetails.roleName + '&roleId=' + vm.userDetails.roleId | com.controller.project | getProjectList() | usp\_getProjectDetails |
| src\app\view\dashboard | projectLink | opportunity/" + projectDet.projectId + "/opportunity | com.controller.opportunities | getOpprutunity() |  |
| src\app\view\dashboard | getNotification | user/' + vm.userDetails.loginId + '/releaseSetAlert | com.controller.user | releaseSetAlert() |  |
| src\app\view\dashboard | deleteNoti | user/' + noteJSON.userId + '/updateAlertFlag | com.controller.user | seatAlertFlag() |  |
| src\app\view\dashboard | gotoModule | project/projectlist/' + vm.userDetails.loginId + '/' + projectObj.projectId + '/' + projectObj.id+'?role=' + vm.userDetails.roleName + '&roleId=' + vm.userDetails.roleId | com.controller.project | getProjectDetails() | usp\_get\_login\_Allrole |
| src\app\view\dashboard | updateAlertFlag | user/' + projectObj.userId + '/updateAlertFlag' | com.controller.user | seatAlertFlag() |  |
| src\app\view\dashboard | closeProject | project/closeproject/' + projObj.projectId | com.controller.project | closeProject() |  |

1. **Revenue Management**

**UI and Java flow:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| File Path | Function | API | Java Controller | Java Method | Stored Procedure (If any) |
| src\app\view\revenueManagement | getEmplistForTnm | project/revenue/tnm | com.controller.project | getInitRevenueTnMData() | usp\_bill\_tnm |
| src\app\view\revenueManagement | getMilestoneForFB | project/revenue/fp | com.controller.project | getInitRevenueFPData() | usp\_bill\_fp |
| src\app\view\revenueManagement | getFTEList | project/revenue/loadfte | com.controller.project | getInitFTERevenueData() |  |
| src\app\view\revenueManagement | getOnloadListRVS | project/revenue/share | com.controller.project | getInitRevenueShareData() |  |
| src\app\view\revenueManagement | getCISonloadList | project/revenue/cis | com.controller.project | getOnLoadCISData() |  |
| src\app\view\revenueManagement | getRmbonloadList | project/revenue/onloadreimbursement | com.controller.project | getOnLoadReimbursementData() |  |
| src\app\view\revenueManagement | saveTnM | project/revenue/tnm | com.controller.project | saveInitTnMRevenueData() |  |
| src\app\view\revenueManagement | saveFB | project/revenue/fp | com.controller.project | saveInitFPRevenueData() |  |
| src\app\view\revenueManagement | saveFTE | project/revenue/fte | com.controller.project | saveInitFTERevenueData() |  |
| src\app\view\revenueManagement | saveRVS | project/revenue/share | com.controller.project | saveInitRevenueShareData() |  |
| src\app\view\revenueManagement | saveCIS | project/revenue/cis | com.controller.project | saveCISData() |  |
| src\app\view\revenueManagement | saveRmb | project/revenue/reimbursement | com.controller.project | saveInitRevenueReimbursementData() |  |
| src\app\view\revenueManagement | approverOrReject | project/revenue/approve | com.controller.project | approveBillingStatus() |  |
| src\app\view\revenueManagement | recall | project/revenue/recall | com.controller.project | recallBillingStatus() |  |
| src\app\view\revenueManagement | postToSAP | project/revenue/sappost | com.controller.project | postToSAP() |  |
| src\app\view\revenueManagement | removeFTERow | project/revenue/delete | com.controller.project | deleteRevenue() |  |
| src\app\view\revenueManagement | removeRVSRow | project/revenue/delete | com.controller.project | deleteRevenue() |  |
| src\app\view\revenueManagement | removeCISRow | project/revenue/delete | com.controller.project | deleteRevenue() |  |
| src\app\view\revenueManagement | removeRmbRow | project/revenue/delete | com.controller.project | deleteRevenue() |  |

1. **Project Allocation**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| File Path | Function | API | Java Controller | Java Method | Stored Procedure (If any) |
| src\app\view\project\project.html | getProjectDetail | project/details/projectList | com.controller.project | getProjectDetails() |  |
| src\app\view\project\project.html | deleteProject | employee/'+projListObj.projAllocId+'/allocation | com.controller.employee | deleteEmployeeAllocation() |  |

1. **Add Project Allocation**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| File Path | Function | API | Java Controller | Java Method | Stored Procedure (If any) |
| src\app\view\project\addProjectAlloc\addProjectAlloc.html | getbillRole | employee/empbillingrole/'+$stateParams.obj.empProjAlloc.projectId+'/emp/'+empId | com.controller.employee | getEmployeeBillingRoleList() |  |
| src\app\view\project\addProjectAlloc\addProjectAlloc.html | getWbsListOnCity | project/'+$stateParams.obj.empProjAlloc.projectId+'/projectwbslist?plantId='+$stateParams.obj.employeeDetail.plantId | com.controller.project | getProjectWbsList() |  |
| src\app\view\project\addProjectAlloc\addProjectAlloc.html | getSeatList | employee/'+$stateParams.obj.empProjAlloc.projectId+'/projectseatlist | com.controller.employee | getProjectSeatList() |  |
| src\app\view\project\addProjectAlloc\addProjectAlloc.html | getEmpList | project/empList/'+vm.userDetails.loginId | com.controller.project | getEmpListForProject() |  |
| src\app\view\project\addProjectAlloc\addProjectAlloc.html | selectedEmpChange | project/empdetails/"+empObj.id | com.controller.project | getEmpList() |  |
| src\app\view\project\addProjectAlloc\addProjectAlloc.html | getLastWorkDate | project/"+ $stateParams.obj.empProjAlloc.projectId+"/"+empId+"/chkLWD | com.controller.project | getWbsList() |  |
| src\app\view\project\addProjectAlloc\addProjectAlloc.html | saveEmpAllocation | employee/allocation | com.controller.employee | saveOrUpdateEmployeeAllocation() | usp\_check\_allocation1,  usp\_check\_allocation, usp\_check\_allocation,  usp\_bulk\_allocation\_insert,  usp\_calculate\_effortutilization |

1. **Project Configuration**

**Sub-feature: Billing Cycle**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| File Path | Function | API | Java Controller | Java Method | Stored Procedure (If any) |
| src/app/view/projconfig/projconfig.html | biliingType | project/billingcycle | com.controller.project | getBillingCycle() |  |
| src/app/view/projconfig/projconfig.html | addBillingCycleOne | project/billingPeriodConfig | com.controller.project | savePeriod () |  |
| src/app/view/projconfig/projconfig.html | addBillingCycleTwo | project/billingPeriodConfig | com.controller.project | savePeriod() |  |
| src/app/view/projconfig/projconfig.html | updateBillingCycleOne | project/billingPeriodConfig | com.controller.project | getWbsPlantId() |  |
| src/app/view/projconfig/projconfig.html | removeDelegate | project/deletebillingPeriod/'+delegObj.billingperiodid | com.controller.project | deleteBillingPeriod() |  |
| src/app/view/projconfig/projconfig.html | submitprojectBillingConfig | project/billingPeriodConfig | com.controller.project | savePeriod() | usp\_billingcycle,  usp\_billingcycle\_quaterly |

**Sub-feature: Config Period**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| File Path | Function | API | Java Controller | Java Method | Stored Procedure (If any) |
| src/app/view/projconfig/projconfig.html | getBillingConfig | project/getProjectConfig | com.controller.project | getbillingPeriod() |  |
| src/app/view/projconfig/projconfig.html | configurePeriod | project/configNoticePeriod | com.controller.project | configNoticePerid () | usp\_billing\_period\_change |
| src/app/view/projconfig/projconfig.html | getAssignPmHistory | project/getpmhistory/'+$stateParams.obj.projectId | com.controller.project | getpmhistory() |  |

1. **Close Project**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| File Path | Function | API | Java Controller | Java Method | Stored Procedure (If any) |
| src/app/toolbar/layouts/vertical-navigation/toolbar.html | closeProject | project/closeproject/' + projObj.projectId | com.controller.project | closeProject() |  |

1. **Employee**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| File Path | Function | API | Java Controller | Java Method | Stored Procedure (If any) |
| src/app/view/employee/empAlloc/employee.html | selectedEmpChange | employee/'+empObj.id+'/allocation/'+vm.userDetails.loginId | com.controller.employee | viewEmployeeAllocationDetails() | usp\_employee\_allocation\_search |
| src/app/view/employee/empAlloc/employee.html | employeeListFun | employee/'+vm.userDetails.loginId+'/list | com.controller.employee | employeeList() |  |
| src/app/view/employee/empAlloc/employee.html | editproject | project/'+projListObj.projectId+'/projectdetails | com.controller.project | getProjectDetailsUsingProjectCode () |  |
| src/app/view/employee/empAlloc/employee.html | deleteProject | project/'+projListObj.projectId+'/projectdetails | com.controller.project | getProjectDetailsUsingProjectCode () |  |
| src/app/view/employee/empAlloc/employee.html | viewUtilization | employee/'+vm.globelEmpId+'/utilization | com.controller.employee | empUtilization () | usp\_view\_utilization |
| src/app/view/employee/empAlloc/employee.html | getProjectList | employee/'+loginId+'/projectlist?empRole='+vm.userDetails.roleName+'&empId='+vm.empAlloc.employeeDetail.id | com.controller.employee | getProjectList() |  |