**New Codington Festival Online Project -   
Component Class Design**

**Project:** New Codington Festival Online Project

**System:** Festival Event Registration System – Release 2

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# Component Class Design – FERS Release 2

The intention of this document is to provide the information expected to be captured by a Component/Class Design. It is used to design a single component which contains one or more classes.

# List of Packages and Classes

|  |  |
| --- | --- |
| **Packages List** | **Classes List** |
| es.coritel.codington.web.servlets  es.coritel.codington.web.controllers  es.coritel.codington.festival.interfaces.services  es.coritel.codington.festival.services  es.coritel.codington.festival.interfaces.daos  es.coritel.codington.festival.daos  es.coritel.codington.festival.domain  es.coritel.codington.festival.exceptions  es.coritel.codington.festival.utils | FrontServlet  IController  NewVisitorController  SearchVisitorController  UpdateVisitorController  ChangePasswordController  EventRegController  EventUnregController  SearchEventByNameController  ShowCatalogController  DeleteEventController  UpdateEventController  DisplayEventController  SearchEventByNameCatalogController  LogoutController  EventService  IVisitorService  EventService  VisitorService  IEventDAO  IVisitorDAO  IEventSignUpDAO  ISequencerDAO  EventDAOImpl  VisitorDAOImpl  EventSignUpDAOImpl  SequencerDAOImpl  Event  People  Visitor  EventSignUp  FERSDataConnection  FERSDbQuery  Validator  DomainException  DAOException  ServiceException |

# Package/Class Summary

Package es.coritel.codington.web.servlets

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| --- | --- |
| **Class Summary** | |
| FrontServlet | A Servlet that mapping request with the controller to process it |

Package es.coritel.codington.web.controllers

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| **Class Summary** | |
| IController | An interface for defining the request process method needed for Controllers |
| NewVisitorController | A controller class for receiving and handling a **new visitor register** request from the user interface. |
| SearchVisitorController | A controller class for receiving and handling a **login** request from the user interface. |
| UpdateVisitorController | A controller class for receiving and handling **an update visitor information** request from the user interface. |
| ChangePasswordController | A controller class for receiving and handling an **update password** request from the user interface. |
| EventRegController | A controller class for receiving and handling a **register to event** request from the user interface. |
| EventUnregController | A controller class for receiving and handling an **unregister from event** request from the user interface. |
| SearchEventByNameController | A controller class for receiving and handling a **search event** request from the user interface (VisitorMain Page) |
| ShowCatalogController | A controller class form reciving and handilng a **show catalog** request from the user interface |
| DeleteEventController | A controller class for receiving and handling **a delete event** request from the user interface. |
| UpdateEventController | A controller class for receiving and handling an **update Event** request from the user interface. |
| DisplayEventController | A controller class for receiving and handling **a detail Event** request from the user interface. |
| SearchEventByNameCatalogController | A controller class for receiving and handling a **search event** request from the user interface (Event Catalog Page) |
| LogoutController | A controller class for receiving and handling a **logout** request from the user interface (VisitorMain Page) |

## Package es.coritel.codington.festival.interfaces.services

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| --- | --- |
| **Interface Summary** | |
| IEventService | An interface for defining and enforcing operations needed for the Event Service class. It provides the scope of possible database requests made through the IEventDAO. |
| IVisitorService | An interface for defining and enforcing operations needed for the Visitor Service Class. It provides the scope of possible database requests made through the IVisitorDAO. |

## Package es.coritel.codington.festival.services

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| --- | --- |
| **Class Summary** | |
| EventServiceImpl | A service class that implements the IEventServices. Makes event-related data requests to the IEventDAO interface |
| VisitorServiceImpl | A service class that implements the IVisitorServices. Makes visitor-related data requests to the IVisitorDAO interface |

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## Package es.coritel.codington.festival.interfaces.daos

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| **Interface Summary** | |
| IEventDAO | An interface for defining and enforcing operations needed for the Event DAO class |
| IVisitorDAO | An interface for defining and enforcing operations needed for the Visitor DAO Class. |
| IEventSignUpDAO | An interface for defining and enforcing operations needed for the EventSignUp DAO Class. |
| ISequenceDAO | An interface for defining and enforcing operations needed for the Sequence DAO Class. |

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## Package es.coritel.codington.festival.daos

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| **Class Summary** | |
| EventDAOImpl | A Data Access Object (DAO) class for handling and managing event related data requested, updated, and processed in the application and maintained in the database. The interface between the application and event data persisting in the database. |
| VisitorDAOImpl | A Data Access Object (DAO) class for handling and managing visitor related data requested, used, and processed in the application and maintained in the database. The interface between the application and visitor data persisting in the database. |
| EventSignUpDAOImpl | A Data Access Object (DAO) class for handling and managing event sign-up related data requested, used, and processed in the application and maintained in the database. The interface between the application and eventsignup data persisting in the database. |
| SequencerDAOImpl | A Data Access Object (DAO) class for handling and managing object id related data requested. The interface between the application and sequencer data persisting in the database |

## Package es.coritel.codington.festival.domain

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| **Class Summary** | |
| Event | A Plain Old Java Object (POJO) entity class that stores (and helps to persist in the application) some or all information from the Event Table in the database. |
| People | A Plain Old Java Object (POJO) entity class that stores (and helps to persist in the application) some of the information from the Visitor Table. People is the parent class of the Visitor Class. |
| Visitor | A Plain Old Java Object (POJO) entity class that stores (and helps to persist in the application) more information from the Visitor Table. |
| EventSignUp | A Plain Old Java Object (POJO) entity class that stores (and helps to persist in the application) more information from the EventSignup Table |

## Package es.coritel.codington.festival.exceptions

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| **Exception Summary** | |
| DomainException | A customized Exception throws in Domain Tier when user set invalid data. |
| DaoException | A customized Exception class that redirects how the ClassNotFoundException, SQLException and Exception objects are handled in the application. Tier DAO |
| ServiceException | A customized Exception class that redirects DaoException objects in the Service Tier. |

## Package es.coritel.codington.festival.utils

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| **Class Summary** | |
| FERSDataConnection | A helper class that centralizes the management of data connections in the underlying database. |
| FERSDbQuery | A helper class that makes available to the application SQL queries that are externalized and centrally maintained using the Spring Framework. |
| Validator | A helper class that makes available to the application data validator methods . |

# Javadoc Reference (for Class, Interface and other details)

N/A

# Note

For more examples of templates and completed component/class designs, refer to the Component Class Design document samples and Templates in ADM for Custom Development v 5.1 Controlled Release.