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| **SOFTWARE DETAIL DESIGN DOCUMENT** |
| DD\_PenaltyManagement |
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1. **File list**

[*Reference to Penaltymanagement in File List*](../../HRM_File%20List.xlsx)

1. **Function list**

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| ***ListPenaltyManagementView*** |  |
| **Function** | **Description** |
| OnCellDoubleClick() | Show GUI choosen by user |

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| ***EditPenaltyManagementView*** |  |
| **Function** | **Description** |
| View\_CloseWindow() | Close GUI choosen by user |

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| ***ListPenaltyManagementViewModel*** |  |
| **Function** | **Description** |
| GetListPenaltyManagementComplete(intemployeeKey) | Get list of available data of Penaltymanagementto List View |
| GetPenaltyManagementtByKeyComplete(int id, stringkeyName) | Check PenaltyManakey insertedwith available PenaltyManakey in database. |
| DeletePenaltyManagementComplete(IntPenaltyManaKey) | Delete list data of Penaltymanagement from database |
| Reload() | Getavailable data of Penaltymanagement from database |
| LoadInitComplete() | Display data from Reload() to List View |

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| ***EditPenaltyManagementViewModel*** |  |
| **Function** | **Description** |
| SavePenaltyManagementComplete(IntPenaltyManaKey) | Store data of PenaltyManagement to database |
| GetPenaltyManagementComplete(int id) | Get list of available data of Penaltymanagementto Edit View |
| GetPenaltyManagementByKeyComplete(int id, stringkeyName) | Check PenaltyManakey inserted with available PenaltyManakey in database. |
| CheckInputData() | Check if user input wrong data or lack |
| Readload() | Get available data of Penaltymanagement from database |
| LoadInitComplete() | Display data from Reload() to List View |

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| ***ExpandInformationModel*** |  |
| **Function** | **Description** |
| GetListPenaltyManagementAsync(intemployeeKey) | Get list of available data of Penaltymanagement from database to ViewlModel |
| GetPenaltyManagementAsync(int id) | Get data of Penaltymanagement from database. |
| SavePenaltyManagementAsync(IntPenaltyManaKey) | Insert data of Penaltymanagement to database. |
| DeletePenaltyManagementAsync(IntPenaltyManaKey) | Remove data of Penaltymanagement to database. |

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| ***HRMService*** |  |
| **Function** | **Description** |
| GetHRM\_PenaltyManagement(intPenaltyManaKey) | SQL statement is generated from ViewModel player and dispatch to this layer to execute Select transaction. |
| InsertHRM\_PenaltyManagement(intPenaltyManaKey) | SQL statement is generated from ViewModel player and dispatch to this layer to execute Insert transaction. |
| UpdateHRM\_PenaltyManagement(intPenaltyManaKey) | SQL statement is generated from ViewModel player and dispatch to this layer to execute Update transaction. |
| DeleteHRM\_PenaltyManagement(intPenaltyManaKey) | SQL statement is generated from ViewModel player and dispatch to this layer to execute Delete transaction. |

1. **Detail Design**
   1. Client Class Diagram



* 1. Business Class Diagram



* 1. Entity Diagram

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| C:\Users\DangNguyen\Desktop\HRM Image\HRM_employee.jpg | C:\Users\DangNguyen\Desktop\HRM Image\HRM_Penalty.jpg |

* 1. Sequence Diagram
     1. List Penalty Management Diagram



* + 1. Edit Penalty Management Diagram

