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

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

1. **Function list**

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

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

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| ***ListCertificateManagementViewModel*** |  |
| **Function** | **Description** |
| GetListCertificateManagementComplete(int Employee) | Get list of available data of Certificatemanagementto List View |
| GetCertificateManagementtByKeyComplete(int id, stringKeyName) | Check CertificateManakey insertedwith available CertificateManakey in database. |
| DeleteCertificateManagementComplete(IntCertificateKey) | Delete list data of Certificatemanagement from database |
| Reload() | Getavailable data of Certificatemanagement from database |
| LoadInitComplete() | Display data from Reload() to List View |

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| ***EditCertificateManagementViewModel*** |  |
| **Function** | **Description** |
| SaveCertificateManagementComplete(IntCertificateKey) | Store data of CertificateManagement to database |
| GetCertificateManagementComplete(int Employee) | Get list of available data of Certificatemanagementto Edit View |
| GetCertificateManagementByKeyComplete(int id, stringKeyName) | Check CertificateManakey inserted with available CertificateManakey in database. |
| CheckInputData() | Check if user input wrong data or lack |
| Readload() | Get available data of Certificatemanagement from database |
| LoadInitComplete() | Display data from Reload() to List View |

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| --- | --- |
| ***ExpandInformationModel*** |  |
| **Function** | **Description** |
| GetListCertificateManagementAsync(int Employee) | Get list of available data of Certificatemanagement from database to ViewlModel |
| GetCertificateManagementAsync(int id) | Get data of Certificatemanagement from database. |
| SaveCertificateManagementAsync(IntCertificateKey) | Insert data of Certificatemanagement to database. |
| DeleteCertificateManagementAsync(IntCertificateKey) | Remove data of Certificatemanagement to database. |

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

* 1. Sequence Diagram
     1. List Certificate Management Diagram



* + 1. Edit Certificate Management Diagram

