**BOUNDRY**

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| **CRC Card** | |
| **Class Name:** Account Viewer | |
| **Responsibility** | **Collaborations** |
| Signup request | MVC-Account Controller |
| Login request | MVC-Account Controller |
| Logout request | MVC-Account Controller |

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| **CRC Card** | |
| **Class Name:** Email Register | |
| **Responsibility** | **Collaborations** |
| Open register window | - |
| Fill user information | MVC-Account Controller |
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| **CRC Card** | |
| **Class Name:** Homepage Viewer | |
| **Responsibility** | **Collaborations** |
| Open homepage | - |
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| **CRC Card** | |
| **Class Name:** Exampage Viewer | |
| **Responsibility** | **Collaborations** |
| Open Exam page | MVC-Exam Controller |
| Question request | API-Question Controller |
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| **CRC Card** | |
| **Class Name:** Navigatingquestion Button | |
| **Responsibility** | **Collaborations** |
| Next Question request | API-Question Controller |
| Previous Question request | API-Question Controller |

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| **CRC Card** | |
| **Class Name:** Finish Exam Button | |
| **Responsibility** | **Collaborations** |
| correct student answers request | API-QuestionCorrection Controller |
| Student result request | API-QuestionCorrection Controller |

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| **CRC Card** | |
| **Class Name:** Exam Result page | |
| **Responsibility** | **Collaborations** |
| Open Exam Result Page | - |
| Fill student answers | API-QuestionCorrection Controller |

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| **CRC Card** | |
| **Class Name:** My marks button | |
| **Responsibility** | **Collaborations** |
| request Marks Page | MVC-Student Controller |
| Fill student marks | API-Student Controller |

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| **CRC Card** | |
| **Class Name:** GPA button | |
| **Responsibility** | **Collaborations** |
| request GPA Page | MVC-Student Controller |
| Fill student marks | API-Student Controller |

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| **CRC Card** | |
| **Class Name:** Add question view | |
| **Responsibility** | **Collaborations** |
| open Add question Page | MVC-Teacher Controller |
| Fill question information | MVC-Teacher Controller |

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| **CRC Card** | |
| **Class Name:** Add question button | |
| **Responsibility** | **Collaborations** |
| Add question request | API-Teacher Controller |

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| **CRC Card** | |
| **Class Name:** Create Exam view | |
| **Responsibility** | **Collaborations** |
| open Create Exam Page | MVC-Teacher Controller |
| Fill Exam pattern | MVC-Teacher Controller |

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| **CRC Card** | |
| **Class Name:** Generate Exam button | |
| **Responsibility** | **Collaborations** |
| Create Exam request | API-Teacher Controller |

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| **CRC Card** | |
| **Class Name:** Exam Analysis view | |
| **Responsibility** | **Collaborations** |
| Open Exam Analysis view | API-Teacher Controller |

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| **CRC Card** | |
| **Class Name:** Exam Analysis button | |
| **Responsibility** | **Collaborations** |
| Exam Analysis request | API-Admin Controller |

**CONTRLLER**

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| **CRC Card** | |
| **Class Name:** API-Account Controller | |
| **Responsibility** | **Collaborations** |
| Login request | User |
| Validate account | - |
| Open session |  |
| Logout request |  |
| Signup request | User |
| Validate data | User |

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| **CRC Card** | |
| **Class Name:** API-Question Controller | |
| **Responsibility** | **Collaborations** |
| Request questions | QuestionBank |
| Request Next question | QuestionBank |
| Request Previous question | QuestionBank |

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| **CRC Card** | |
| **Class Name:** API-QuestionCorrection Controller | |
| **Responsibility** | **Collaborations** |
| Request answer correct | QuestionAnswers |
| Request student result | QuestionAnswers |

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| **CRC Card** | |
| **Class Name:** API-Student Controller | |
| **Responsibility** | **Collaborations** |
| Request Student mark | Student course marks |
| Request student GPA | Student Semester |

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| **CRC Card** | |
| **Class Name:** API-Teacher Controller | |
| **Responsibility** | **Collaborations** |
| Request add question mark | Questions Bank |
| Request create exam | Exam |

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| **CRC Card** | |
| **Class Name:** API-Admin Controller | |
| **Responsibility** | **Collaborations** |
| Request add user mark | User |
| Request create exam | Exam |

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| **CRC Card** | |
| **Class Name:** API-AnalysisAdmin Controller | |
| **Responsibility** | **Collaborations** |
| Request Exam analysis | Exam |
| Request course analysis | Course |

**ENTITY**

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| **CRC Card** | |
| **Class Name:** User | |
| **Responsibility** | **Collaborations** |
| Get email&password | - |
| Check email$password | - |
| Save user data | - |
| Check user email | - |
| Get user information | - |

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| **Attribute** |
| FirstName, LastName, Email,Address,Bithday |

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| **CRC Card** | |
| **Class Name:** Question Bank | |
| **Responsibility** | **Collaborations** |
| Get question | - |
| Add question | - |
| Edit question | - |
| Delete question | - |

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| **Attribute** |
| Question,Topic,thinkingskills,difficulty,mark |

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| **CRC Card** | |
| **Class Name:** Course | |
| **Responsibility** | **Collaborations** |
| Get course | - |
| Add course | - |
| Edit course | - |
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| **Attribute** |
| Name, Credit hours, description |

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| **CRC Card** | |
| **Class Name:** ILOS | |
| **Responsibility** | **Collaborations** |
| Get ILO | - |
| Add ILO | - |

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| **Attribute** |
| ILO, description |