Use Case Analysis

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| **Title:** | Add Lessons |
| **Description:** | Allows mentor to add lesson to System |
| **Primary Actor:** | Mentor |
| **Pre-conditions:** | Mentor is logged onto system. |
| **Post-conditions:** | Updated timetable  Time-slot can’t be booked again |
| **Sequence of events:** | Get lesson info (topic, time, mentor(s), room, recommended year)  Add lesson to schedule |
| **Extensions:** | Add lesson |

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| **Title:** | Remove Lessons |
| **Description:** | Allows mentor to remove lesson from System |
| **Primary Actor:** | Mentor |
| **Pre-conditions:** | Mentor is logged onto system.  Lesson has been added. |
| **Post-conditions:** | Updated timetable  Time-slot can’t be booked again |
| **Sequence of events:** | Select lesson to Remove  Update schedule  Inform involved users (mentor, students who booked) |
| **Extensions:** | Add lesson |

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| **Title:** | Change lessons |
| **Description:** | Allows mentor to make changes to lessons added |
| **Primary Actor:** | Mentor |
| **Pre-conditions:** | Mentor is logged onto system.  Lesson has been added. |
| **Post-conditions:** | Updated timetable  New time-slot cannot be booked again  Old time-slot can be booked again |
| **Sequence of events:** | Select lesson to change  Get new information (new time, changed room, etc.)  Update schedule  Inform involved users (mentor, students who booked) |
| **Extensions:** | Add lesson |

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| **Title:** | Show timetable |
| **Description:** | System shows the current timetable to user/mentor |
| **Actors:** | User, Mentor |
| **Pre-conditions:** | Timetable is available |
| **Post-conditions:** |  |
| **Sequence of events:** | Select timetable to show  Display timetable |

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| **Title:** | Search lessons |
| **Description:** | Allows User to look for class on certain topic |
| **Primary Actor:** | User |
| **Pre-conditions:** | Scheduled classes have been arranged in a searchable format |
| **Post-conditions:** | Result is given based on search parameters |
| **Sequence of events:** | Get search terms (lesson type, time, etc.)  Search schedule for matching classes  Display matching classes  Student may show interest in attending, add to list |

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| **Title:** | Book class |
| **Description:** | Allows User to book a class |
| **Primary Actor:** | User |
| **Pre-conditions:** | Class has been made |
| **Post-conditions:** | System has booked user for class  Time-slot cannot be booked again |
| **Sequence of events:** | Get information (topic, preferred time, etc.)  If class already exists, add to list of students attending, otherwise, add to request list  Mentor contacts student if additional info needed  Class added to schedule |

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| **Title:** | Check against DKIT timetable |
| **Description:** | System compares its own timetable against that of DKIT |
| **Actors:** | System, User |
| **Pre-conditions:** | System has both timetables available to compare to |
| **Post-conditions:** | Comparison of timetables is available |
| **Sequence of events:** | Select DKIT classes/rooms to search  Display common free slots  Display links to individual class/room timetables |

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| **Title:** | Contact Mentor |
| **Description:** | Allow students to contact mentors to ask follow-up questions from lectures |
| **Primary Actor:** | User |
| **Pre-conditions:** | User has booked class with mentor. |
| **Post-conditions:** | Message has been sent to mentor. Notification has been sent to mentor. |
| **Sequence of events:** | User finds mentor on system.  User sends message via system. |
| **Extensions:** | Message fails to send to mentor. |

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| **Title:** | Update class attendance |
| **Description:** | System updates number of class participants as user signs up |
| **Actors:** | System, User |
| **Pre-conditions:** | Class has been made. |
| **Post-conditions:** | Updated class attendance |
| **Sequence of events:** | User books class on system System updates number of users attended class |

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| **Title:** | Monitor class attendance |
| **Description:** | Allows mentor to check current attendance of class. |
| **Primary Actor:** | Mentor |
| **Pre-conditions:** | Class has been made |
| **Post-conditions:** |  |
| **Sequence of events:** | Mentor uses system to monitor class attendance |

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| **Title:** | Update student progress |
| **Description:** | Shows information on classes attended by the students / grades of the student |
| **Actors:** | User, System |
| **Pre-conditions:** | Student has attended at least one class  Students consents to progress tracking |
| **Post-conditions:** | Updated student progress |
| **Sequence of events:** | Select student and class  Get student progress (grades etc.)  Update database |

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| **Title:** | Track class attendance |
| **Description:** | Track information on student progress |
| **Actors:** | System, User |
| **Pre-conditions:** | Student has attended at least one class  Students consents to progress tracking |
| **Post-conditions:** |  |
| **Sequence of events:** | Student progress is updated System compares user latest statistics to that of previous progress updates System makes this comparison available to user and relevant mentors. |

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| **Title:** | Provide Online Resources |
| **Description:** | Provides supplementary resources for user |
| **Primary Actor:** | User |
| **Pre-conditions:** | Resource is available to provide |
| **Post-conditions:** | Making resource available to user |
| **Sequence of events:** | Select topic  Get resource (text, link, pdf, etc.)  Add to resource list for that topic  Edit and save the topic |

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| **Title:** | Access Online Resources |
| **Description:** | Displays supplementary resources for user |
| **Primary Actor:** | User |
| **Pre-conditions:** | Resource is available to provide |
| **Post-conditions:** | Display resources to user |
| **Sequence of events:** | Get topic to search for  Display resources for selected topic  Download/save/view the resources |