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| --- | --- |
| User  CreateandUpdate | |
| Method:  runaddcourse(String[] info\_lst)  updatecourseinfo(String[] info\_lst) | Faculty |

|  |  |
| --- | --- |
| User  Faculty | |
| Method:  create\_course  update\_course\_info | CreateCourse  UpdateCourse |

|  |  |
| --- | --- |
| User  CreateCourse | |
| Method:  create\_course(String course\_name,  String description,  String year) | Faculty  AllCourses  Course  CoursePage  PostPage  Put in |

|  |  |
| --- | --- |
| User  UpdateCourse | |
| Method:  update\_course(String course\_code,  String course\_info,  String year) | Faculty  AllCourses  CoursePage  PostPage |

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| --- | --- |
| AddCourse  PostPage | |
| Method:  create\_course(String course\_name,  String description,  String year) | CoursePage  Comment |

Use Case and Container Helper

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| --- | --- |
| User  GetInputIn | |
| Method:  Scanner getinput(InputStream stream) | GetCourseUI  CreateandUpdate |

|  |  |
| --- | --- |
| User  AllCourses | |
| Method:  create\_course(String course\_name,  String description,  String year) | CreateCourse  UpdateCourse CoursePage |

Create

|  |  |
| --- | --- |
| AddCourse  GerCourseUI | |
| Method:  String[] loaddata()  get\_method() | CreateandUpdate  GetInputIn  basics.commandUI\_new |

|  |  |
| --- | --- |
| AddCourse  CoursePage | |
| Element: |  |

|  |  |
| --- | --- |
| basics  Course | |
| Element: |  |

Design Pattern used:

Façade design pattern

Create a façade class (Faculty), which is responsible for both create\_course and update\_course\_info, and then delegate the create\_course method to the CreateCourse class, the update\_course\_info method to the UpdateCourse class. The instance variables of type CreateCourse and of type UpdateCourse will be contained in the Faculty class, used to call the associated methods. This will keep our code in the Faculty simple and clear, as well as encapsulating more of the implementations.