Project Part 2 – Team – EEZON Individual submission
By Chinmay Shah

Name: Chinmay Hitesh Shah

Title: EEZON – An Interactive EE Inventory Management

Requirements:

User Requirement ID	Use Case ID	
		Requirement
UR-05	UC-04	As the admin, I can remove courses from the system
UR-06	UC-05	As the admin, I can approve role of existing user as a Professor
UR-07	UC-06	As Student, I can request to enroll for a course
UR-12	UC-11	As a Professor/Admin/TA, I can add serial numbers to the kits for a course.
UR-15	UC-14	As a user, I can view kit details course wise.
UR-19	UC1-8	As a user, I can view the penalties incurred for missing check IN deadlines and damage/loss of kits as per user's role

Table 1.1 List of the use case and description requirements and respective use case numbers

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Use Case documentation

	UC-04	
Use Case Name	Remove Course	
Description	User can Remove a course from the system	
Actors	Admin	
Pre-Conditions:	The course exists in the system	
Post Conditions:	The course will be removed from the system	
Frequency of Use:	Accessed by User once or twice after a semester completes	
Flow of Events:	**Actor Action**	**System Response**
	1 Click on Inventory option on User Homepage	Opens Inventory Management page
	2 Click on Remove course	Displays option to select course
	3 Select course and click on Remove	System prompts "Do you want to continue?"
	4 Click on "Yes"	Course is removed from the system
Variations:		
Exceptions:	1. The entered course doesn't exists in the system - System prompts user that "Course doesn't exists and Remove operation Unsuccessful"	
Developer Notes:		

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Use Case ID:	UC-05	
Use Case Name	Approve Professor	
Description	User can approve role of an existing user as a Professor	
Actors	Admin	
Pre-Conditions:	The Professor already exists in the system	
Post Conditions:	The user is added as Professor into the system	
Frequency of Use:	Accessed by User everytime a existing user is added into the system	
Flow of Events:	**Actor Action**	**System Response**
	1 Click on Requests option on User Homepage	Opens a page containing all Requests
	2 Navigate to "R_Prof" option and click Approve	System alerts "Do you want to continue?"
	3 Click on "Yes"	Professor's request is approved and notified
Variations:	1. Decline request - The Professor is notifed accordingly	
Exceptions:		
Developer Notes:		

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Use Case ID:	UC-06	
Use Case Name	Request Course Enrollment	
Description	User requests course enrollment	
Actors	Student	
Pre-Conditions:	The user already exists in the system	
Post Conditions:	User request is sent for approval	
Frequency of Use:	Accessed by User once in the beginnning of the every semester	
Flow of Events:	**Actor Action**	**System Response**
	1 Click on Requests option on User Homepage	Opens a page containing all request types
	2 Click on Request Course	Opens a page showing available courses
	3 Multiselect the courses and click on Submit	System alerts "Do you want to continue?"
	4 Click on "Yes"	Request sent to Admin, Prof, TA of the corresponding course
Variations:		
Exceptions:	1. User clicked on Submit without selecting any course - System prompts the user with the message "Please select atleast one course"	
Developer Notes:		

Use Case ID:	UC-11	
Use Case Name	Add Kit Serial Number	
Description	User can add kit serial number to the kits for a course	
Actors	Admin, Professor, TA	
Pre-Conditions:	Course specific kit type should exist in the system	
Post Conditions:	Kit Serial number mapping with course is added to the system	
Frequency of Use:	Accessed everytime a kit serial number is added for the course	
Flow of Events:	**Actor Action**	**System Response**
	1 Click on Inventory option on User Homepage	Opens Inventory Management page
	2 Click on Add Serial Numbers option	Provides options to select user specific course and select kit type
	3 Select course, existing kit type from the dropdown, enter Serial Number and click on Add	System prompts "Do you want to continue?"
	4 Click on "Yes"	Kit Serial Number mapping with course is added into the system
Variations:		
Exceptions:	If the serial Number mapping is already present - System throws an enter message If the serial number mapping is already made for another course - System throws an enter message - The serial number mapping has to be removed by the other course users	
Developer Notes:		

Use Case ID:	UC-14	
Use Case Name	View kit details course wise	
Description	User can view kit details for user specific course	
Actors	Admin, Professor, TA	
Pre-Conditions:	Course should exist in the system User is added into the course	
Post Conditions:	User can view kit details for any course	
Frequency of Use:	Accessed frequently	
Flow of Events:	**Actor Action**	**System Response**
	1 Click on View Kit Details option on User Homepage	Opens View Kit Details page
	2 Select Year and Semester	Displays relevant courses
	3 Select Course	Displays relevant kits
	4 Select Kit Type	Displays kit details for the selected course in the tabular format
Variations:		
Exceptions:	1. User doesn't select required fields - System pops up an error message	
Developer Notes:		

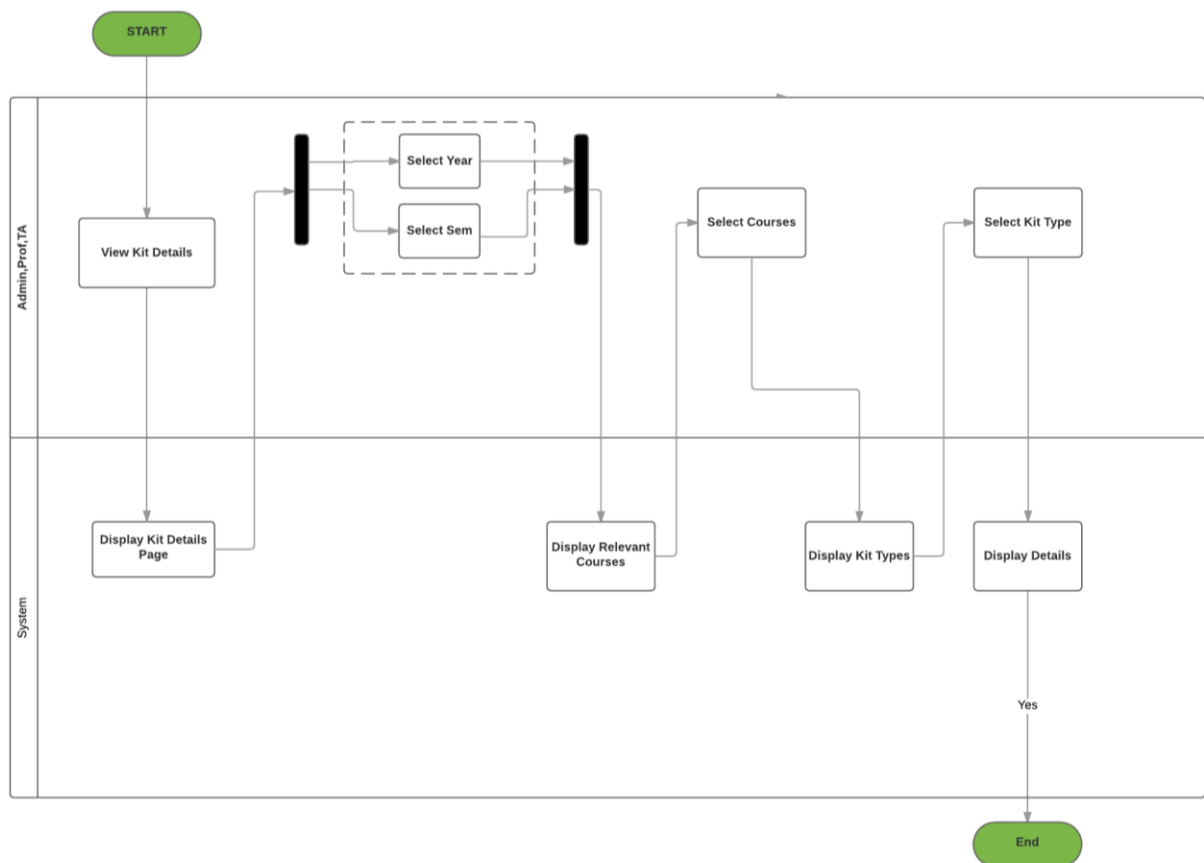| Use Case ID:	UC-18	
Use Case Name	View Penalties Incurred	
Description	User can view the penalties according the role	
Actors	Admin, Professor, TA, Student	
Pre-Conditions:	Course should exist in the system User is added into the course	
Post Conditions:	User can view penalties according to the role	
Frequency of Use:	Accessed by user frequently	
Flow of Events:	**Actor Action**	**System Response**
	1 Click on Penalty Management option on user Homepage	Displays role specific view options
	2 View My penalty option(student) - Select course View option (Admin, Prof, TA) - Select view by course -Select yea,sem, course	Displays penalties in a tabular format according to the options selected
Variations:	View option (Admin, Prof, TA) - Select view by E-mail ID -Enter E-mail ID	
Exceptions:	1. User doesn't choose any options but clicks submit - System pops up an error message	
Developer Notes:		

Activity Diagram

Use Case Name: View Kit Details Course Wise[Use case: UC 14]

Description: This activity diagram depicts the use-case where in a user such as admin, professor or TA(student with TA privilege) can order view kit details .It is a precondition that the user is logged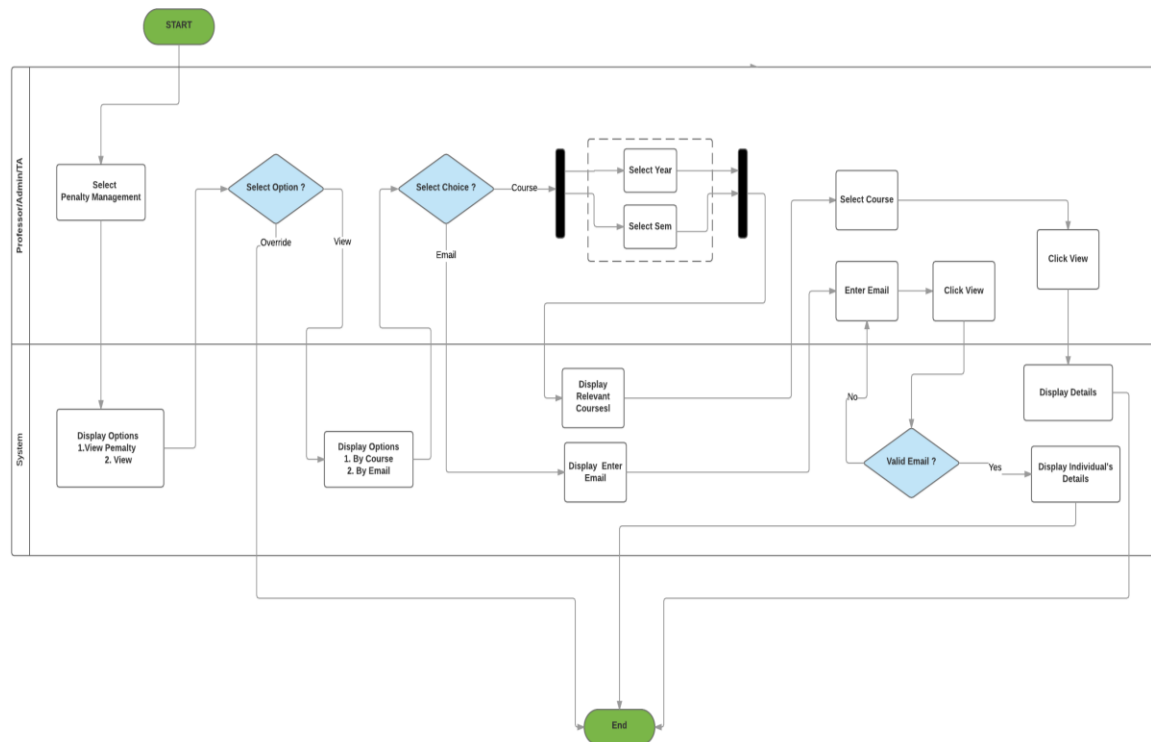 in , added for the course and course exits in system. It depicts same flow for each user where the privilege of accessing the course is depicted in sequence diagram as details as fetched per user-course mapping. The sequence diagram shows object flow only for TA.

ACTIVITY DIAGRAM - VIEW KIT DETAILS COURSE WISE

Name :CHINMAY SHAH

Use case : UC 14
User Requirement - UR 15

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Use Case Name: View Penalties Incurred [Use case: UC 18]

Description: This activity diagram depicts the use-case where in a user such as admin, professor or TA(student with TA privilege) can order view penalties incurred. It is a precondition that the user is logged in, added for the course and course exits in system.

It depicts same flow for each user where the privilege of accessing the course is depicted in sequence diagram as details as fetched per user-course mapping.

The diagram includes the variations that are possible in flow of execution, namely 1) View individual penalty by email. 2) View penalties incurred by course. These variations are depicted in the sequence diagram as case 1) and case2) respectively.

The object flow is only depicted using TA.

ACTIVITY DIAGRAM - VIEW PENALTIES INCURRED

Name : Chinmay Shah
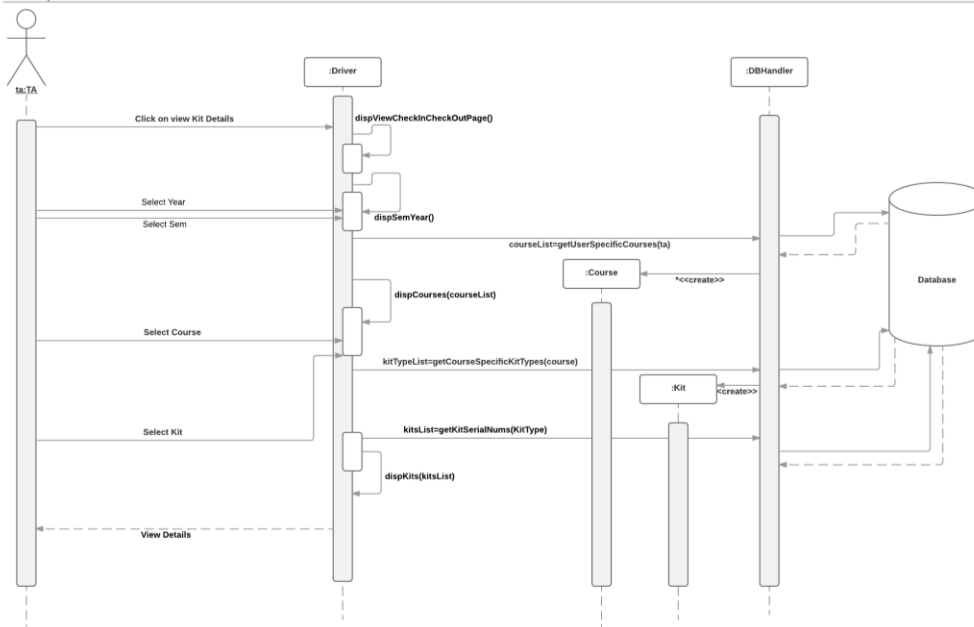Use case : UC 18
User Requirement - UR 19

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Sequence Diagram
Use Case Name: View Kit Details Course Wise[Use case: UC 14]

SEQUENCE DIAGRAM -VIEW KIT DETAILS COURSE WISE
Name : Chinmay Shah
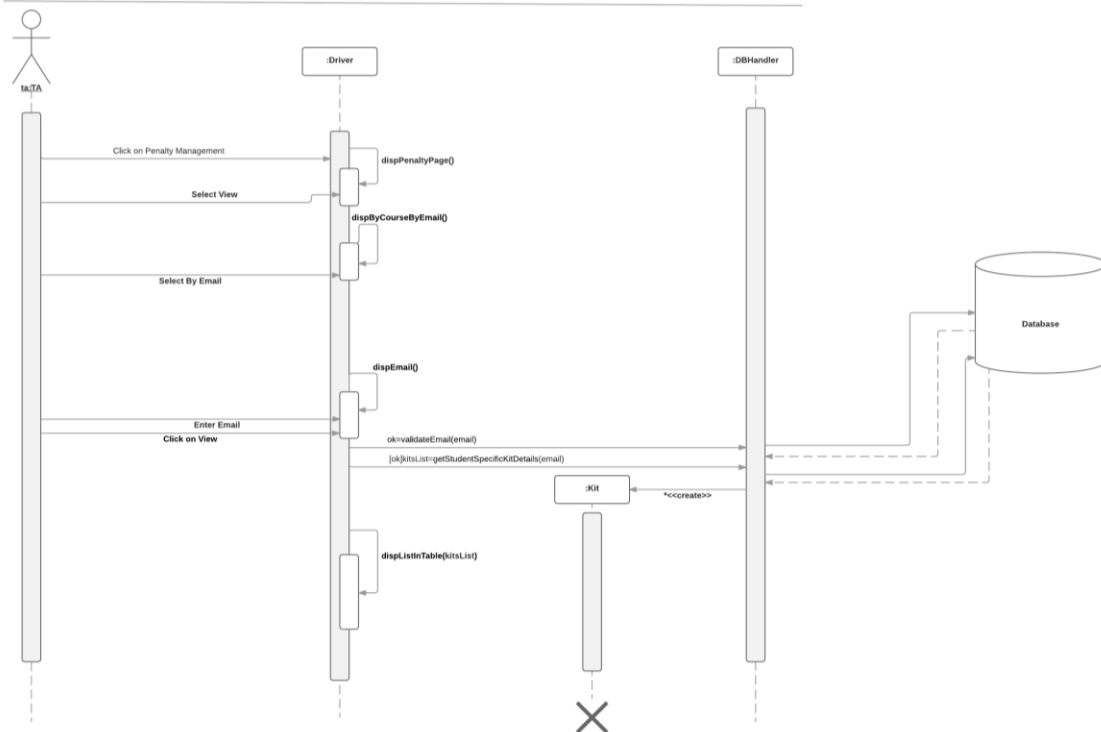Use case : UC 14
User Requirement - UR 15

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Use Case Name: View Penalties Incurred [Use case: UC 18]

    1. Case: When Penalties incurred is viewed by email

SEQUENCE DIAGRAM - VIEW PENALTY INCURRED - BY EMAIL
Name : Chinmay Shah
Use case : UC 18
User Requirement - UR 19

2. Case: When Penalties incurred is viewed by course