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Project Title: EEZON- An Interactive EE Inventory Management

Requirements:

I have implemented UR-01, UR-02, U3-03, UR-16 and UR-13

ID	Requirement	Actor	UseCase
UR-01	As a student/professor, I can signup to the system based on my role	Professor, Student	SignUp
UR-02	As a registered user, I can login to the system	Admin, Professor, Student	Login
UR-03	As a registered user, I can request for a new password when I forget my old password	Admin, Professor, Student	Forgot Password
UR-13	As a Professor/Admin/TA, I can remove serial numbers of kits from the course.	Professor, Admin, TA	Remove board serial numbers
UR-16	As a professor, Admin, TA, I can update check in and check out details of course specific kits in the system.	Admin, Professor, TA	Update checkIN, checkOUT details

Use case Documents:

Use Case ID:	UC-01	
Use Case Name	User SignUp	
Description	User can signup and enter his/her details	
Actors	Professor, Student	
Pre-Conditions:	User is not registered in the system	
Post Conditions:	User is registered into the system	
Frequency of Use:	Accessed by User throughout the day	
Flow of Events:	Actor Action	System Response
	1 Click on SignUp	Show "SignUp Page"
	2 Enter the E-mail ID and Full name	Validate if the E-mail ID is in @colorado domain
	3 Select the role of the User	Generate and send Access code and display the message
	4 User enters the access code	Verifies the access code and prompts for password
	5 User enters password and clicks on SignUp	User is added into the system
Variations:	1. After signup is successful, home page for Professor displays Home Page contents only if his role is approved	
Exceptions:	1. Entered email id is not from @colorado.edu - System prompts user to enter valid email id 2. Email-ID already exists in the system - system prompts that user is already registered before sending the access code	
Developer Notes:		

Use Case ID:	UC-02	
Use Case Name	User Login	
Description	User can Login with his/her credentials	
Actors	Admin, Professor, Student	
Pre-Conditions:	User is already registered in the system	
Post Conditions:	User is Logged into the system User specific Homepage is displayed	
Frequency of Use:	Accessed by User throughout the day	
Flow of Events:	Actor Action	System Response
	1 Enter User Credentials (Email ID & password)	Validate if the E-mail ID is in @colorado domain
	2 Click on Log in option	Authenticate the User credentials and display the Homepage as per role
Variations:	1. Wrong User credentials entered - System prompts user with appropriate message and asks to enter credentials again - Block User if exceeded three wrong attempts in the past half hour	
Exceptions:		
Developer Notes:		

Use Case ID:	UC-03	
Use Case Name	Add Course	
Description	User can add a new course to the system	
Actors	Admin	
Pre-Conditions:	The course doesn't exists in the system	
Post Conditions:	The course is added into the system	
Frequency of Use:	Accessed by User once before start of every semester	
Flow of Events:	Actor Action	System Response
	Click on Inventory option on User	
	1 Homepage	Opens Inventory Management page
	2 Click on Add course	Displays fields to enter course details
	Enter the Course name, description and	
	3 Click on Submit	System prompts "Do you want to continue?"
	4 Click on "Yes"	Course is added into the system
Variations:		
Exceptions:	1. The entered course name already exists in the system	
Developer Notes:	- System prompts user that "Course already exists and Add option Unsuccessful"	

Use Case ID:	UC-13	
Use Case Name	View CheckIN/CheckOUT details	
Description	User can view the checkIN/checkOUT details for a course	
Actors	Student	
Pre-Conditions:	Course should exist in the system User is added into the course	
Post Conditions:	Student can view CheckIN/CheckOUT details for his/her course	
Frequency of Use:	Accessed frequently	
Flow of Events:	Actor Action	System Response
	Click on View my Check IN/ Check OUT 1 option on User Homepage	Opens View My Details page
	Select existing course, select "Mine" as 2 Student Type and click on View	Displays my checkIN/checkOUT details in tabular format
Variations:	1. User selects "All" as student type and clicks on View - Displays the checkIN/checkOUT details of all students in the course	
Exceptions:	1. User doesn't select required fields - System pops up an error message	
Developer Notes:		

Use Case ID:	UC-15	
Use Case Name	Update checkIN/checkOUT details	
Description	User can update checkIN/checkOUT details for kits	
Actors	Admin, Professor, TA	
Pre-Conditions:	Course should exist in the system User is added into the course	
Post Conditions:	CheckIN/CheckOUT details for selected kits are updated	
Frequency of Use:	Accessed frequently	
Flow of Events:	Actor Action	System Response
	1 Click on CheckIN/CheckOUT option on User Homepage	Opens update checkIN/checkOUT page
	2 Enter email id, select checkIN/checkOUT	Verifies Email-ID and displays options based on the selection
	3 CheckOUT option - Select existing course, kit type, serial number. Click on CheckOUT CheckIN option - Select from the displayed list. Click CheckIN	System prompts "Do you want to continue?"
	4 Click on "Yes"	CheckIN/CheckOUT details for kits are updated
Variations:		
Exceptions:	1. User doesn't select required fields - System pops up an error message 2. There are no kits populated for checkIN option for this email id - System notified the user	
Developer Notes:	1. Populate the fields for CheckOUT one after the another	

Activity Diagram:

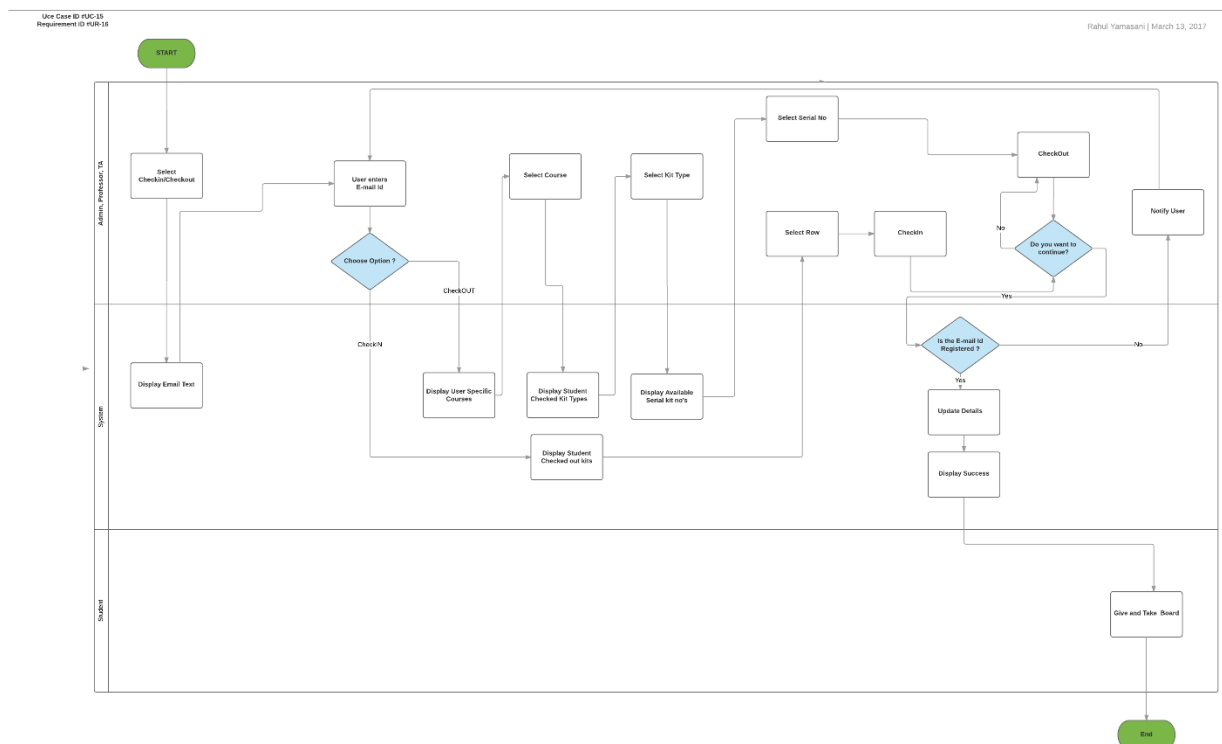
I have implemented activity diagrams for Use case-15 and Use-case 13

Use Case Name: Update CHECKIN/CHECKOUT Details [Use Case ID # UC-15]

Description: This activity diagram details use-case 15, where the user (Admin, Professor, TA) can update the check in and check out details of a kit added to a course.

User first enters e-mail id and system prompts to choose among check in and check out. Based on the option selected user can update the details in accordance to his privilege.

ACTIVITY DIAGRAM: UPDATE CHECKIN/CHECKOUT DETAILS



Use Case Name: STUDENT VIEW CHECKIN CHECKOUT [Use Case ID # UC-13]

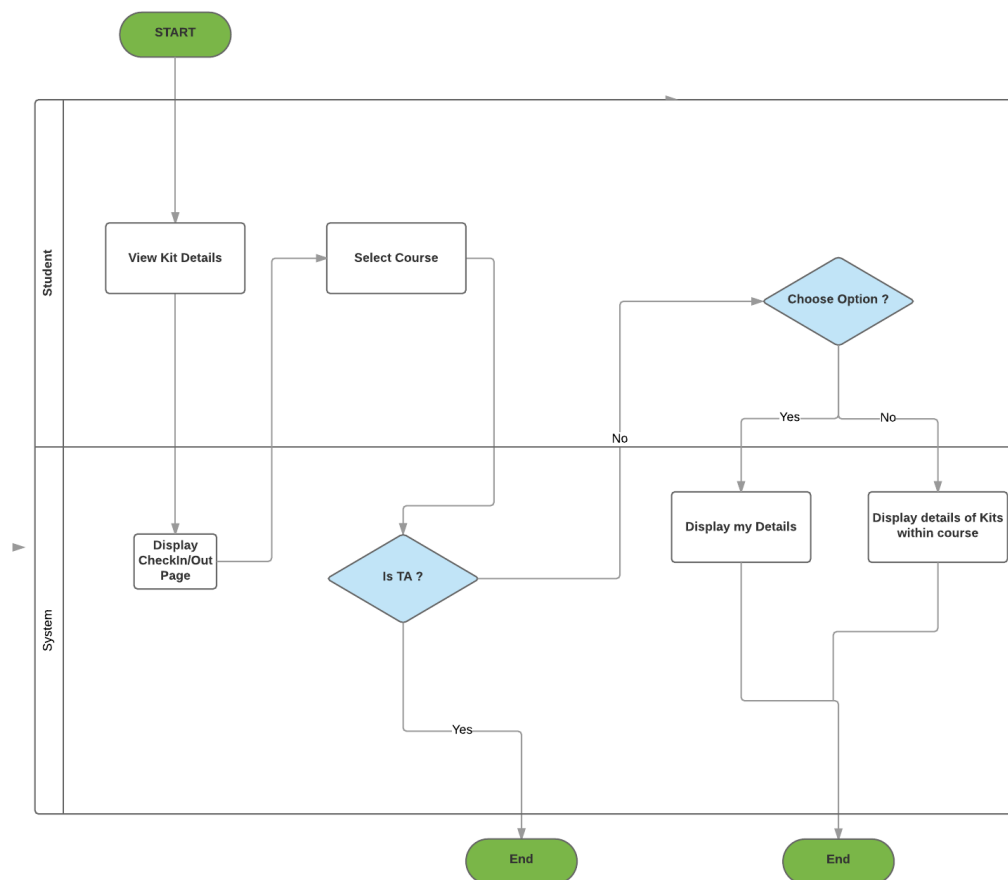
Description: This activity diagram details use-case 13, where the user (student) can view his course specific check in and check out details of a kit.

User first enters view kit details option and system prompts to select course from the available list. Based on the course selected user can view his details of kits.

ACTIVITY DIAGRAM: VIEW CHECKIN/CHECKOUT DETAILS

Use Case ID #UC-13
Requirement ID #UR-14

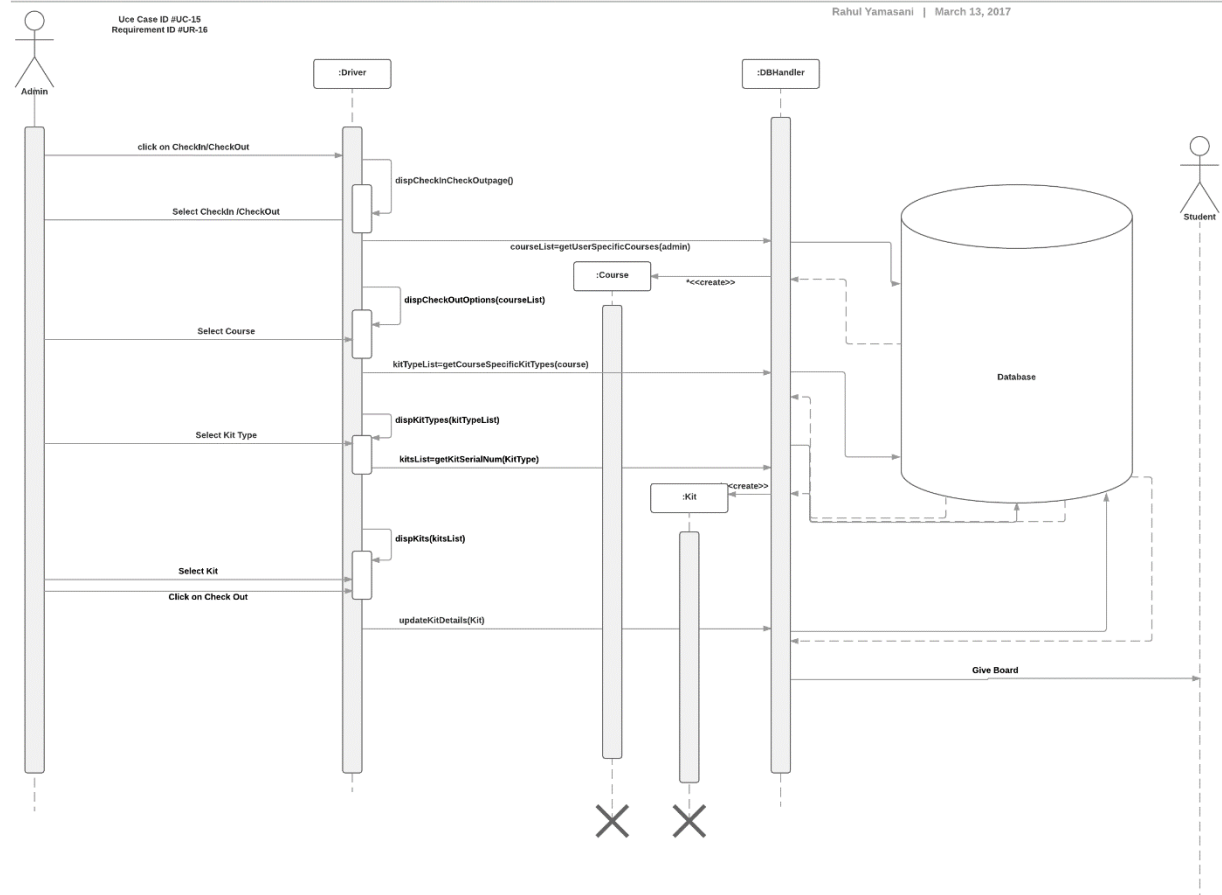
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User Interactions:

Use Case Name: Update CHECKIN/CHECKOUT Details [Use Case ID # UC-15]

SEQUENCE DIAGRAM: UPDATE CHECKIN/CHECKOUT DETAILS



Use Case Name: STUDENT VIEW CHECKIN CHECKOUT [Use Case ID # UC-13]

SEQUENCE DIAGRAM:VIEW CHECKIN/CHECKOUT DETAILS

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