EEZON Part 2- Sharath Reddy Vontari

Name: Sharath Reddy Vontari

Project Title: EEZON- An Interactive EE Inventory Management

Requirements:

ID	Requirement	Actor	UseCase
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-17	As a student, I can request unavailable items	Student	Request for unavailable items
UR-18	As a professor/admin, I can approve requests for unavailable items	Professor, Admin	Approve Request for Unavailable items
UR-21	As a student, I can request for checkIN extension	Student	Request for CheckIn Extension
UR-22	As a non-student, I can approve checkIN extension for students	Admin, Professor	Approving request for Checkin extension

EEZON Part 2- Sharath Reddy Vontari

User Case Documents:

Use Case ID:	UC-12	
Use Case Name	Remove Kit Serial Number	
Description	User can remove kit serial number for a course	
Actors	Admin, Professor, TA	
Pre-Conditions:	Course specific kit serial number should exist in the system	
Post Conditions:	Kit Serial number is removed for the course	
Frequency of Use:	Accessed everytime a kit serial number is removed 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 Remove Serial Numbers option	Provides options to select kit type and course
	Select existing kit type from the dropdown, course, serial number 3 and enter Remarks, click on Remove	System prompts "Do you want to continue?"
	4 Click on "Yes"	Kit Serial Number is removed for course
Variations:		
Exceptions:	1. User doesn't select required fields - System pops up an error message	
Developer Notes:		

EEZON Part 2- Sharath Reddy Vontari

Use Case ID:	UC-16	
Use Case Name	Request Unavailable Item	
Description	User can request for unavailabe component or kits	
Actors	Student	
Pre-Conditions:	Course should exist in the system User is added into the course	
Post Conditions:	User request is sent for approval	
Frequency of Use:	Accessed by User throughout the day	
Flow of Events:	**Actor Action**	**System Response**
	1 Click on Requests option on Home Userpage	Opens a page with options of courses, "Unavailable items" and "checkIN extension"
	2 Click on Request Unavailable Items option	Opens a page for course selection and item type
	3 Select Course, Dev Kit as Item Type	Displays options to enter details
	4 Enter Name, Link, Cost and click on "Request"	System prompts "Do you want to continue?"
	5 Click on "Yes"	Request sent for approval
Variations:	1. User selects Component as Item Type - System prompts user to enter number of components as additional field - User enters Number of components and clicks on "Request"	
Exceptions:	1. User doesn't choose any course but enters details - System pops up an error message 2. User does duplicate request - System pops up an error message	
Developer Notes:		

EEZON Part 2- Sharath Reddy Vontari

Use Case ID:	UC-17	
Use Case Name	Approve Unavailable item	
Description	Approves request for an item	
Actors	Admin, Professor	
Pre-Conditions:	Item requested	
Post Conditions:	Request for Unavailable item is approved	
Frequency of Use:	Accessed by user frequently	
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_OTHER" option and click Accept	System prompts "Do you want to continue?"
	3 Click on "Yes"	Request is approved, corresponding user is notified
	4 Order for approved item has to be placed	
Variations:	1. Decline request The status is updated as Decline and a remark	
Exceptions:	1. User doesn't choose any request but clicks submit - System pops up an error message	
Developer Notes:		

EEZON Part 2- Sharath Reddy Vontari

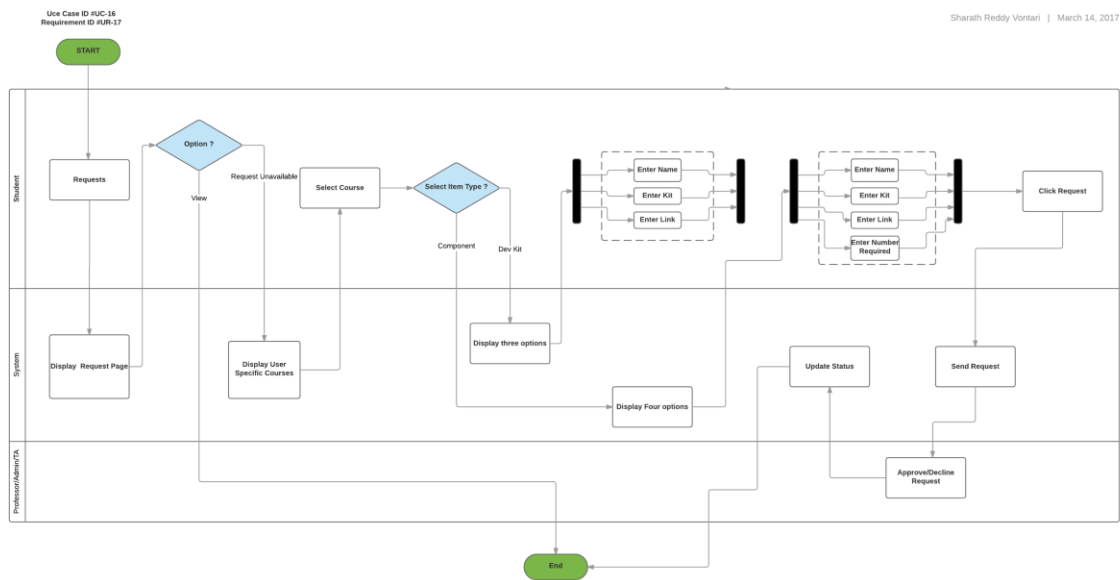| Use Case ID:	UC-20	
Use Case Name	Request for CheckIn Extension	
Description	User can request for CheckIn Extension	
Actors	Student	
Pre-Conditions:	Course should exist in the system User is added into the course	
Post Conditions:	User request is sent for approval	
Frequency of Use:	Accessed by User throughout the day	
Flow of Events:	**Actor Action**	**System Response**
	1 Click on Requests option on User Homepage	Opens a page with options of courses , "new items" and "checkIN extension"
	2 Click on Request CheckIn Extension option	Open page for CheckIn extension. Populates options to select user specific courses
	3 Select Course	Display the serial numbers of kits checked out in dropdown
	3 Select Serial number, Time frame and Click on "Request"	System prompts "Do you want to continue?"
	4 Click on "Yes"	Request sent for approval to course sepecific TA/Prof and admin
Variations:		
Exceptions:	1. User doesn't select required fields - System pops up an error message 2. User does duplicate request - System pops up an error message	
Developer Notes:	1. Display all the previeus requests and status in a tabular format	

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Use Case ID:	UC-21	
Use Case Name	Approve CheckIN extension	
Description	Approving request for Checkin extension	
Actors	Admin, Professor	
Pre-Conditions:	CheckIn extension requested	
Post Conditions:	Request for CheckIn extension is approved and notified	
Frequency of Use:	Accessed by user frequently	
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_CHECKIN" option and click Accept	System prompts "Do you want to continue?"
	3 Click on "Yes"	Request is approved and extend the checkIN date. Check if penalty is incurred and nullify it.
Variations:	1. Decline request The status of reuest is updated as Decline and add a remark	
Exceptions:	1. User doesn't choose any request but clicks submit - System pops up an error message	
Developer Notes:		

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Activity Diagrams:

Use Case Name: Request Unavailable items [Use Case ID # UC-16]

Description: This activity diagram if for the use case 16 where the student ca request for unavailable items in the inventory. The user selects a particular course, and requests a devkit for that course.

ACTIVITY DIAGRAM:REQUEST UNAVAILABLE ITEMS

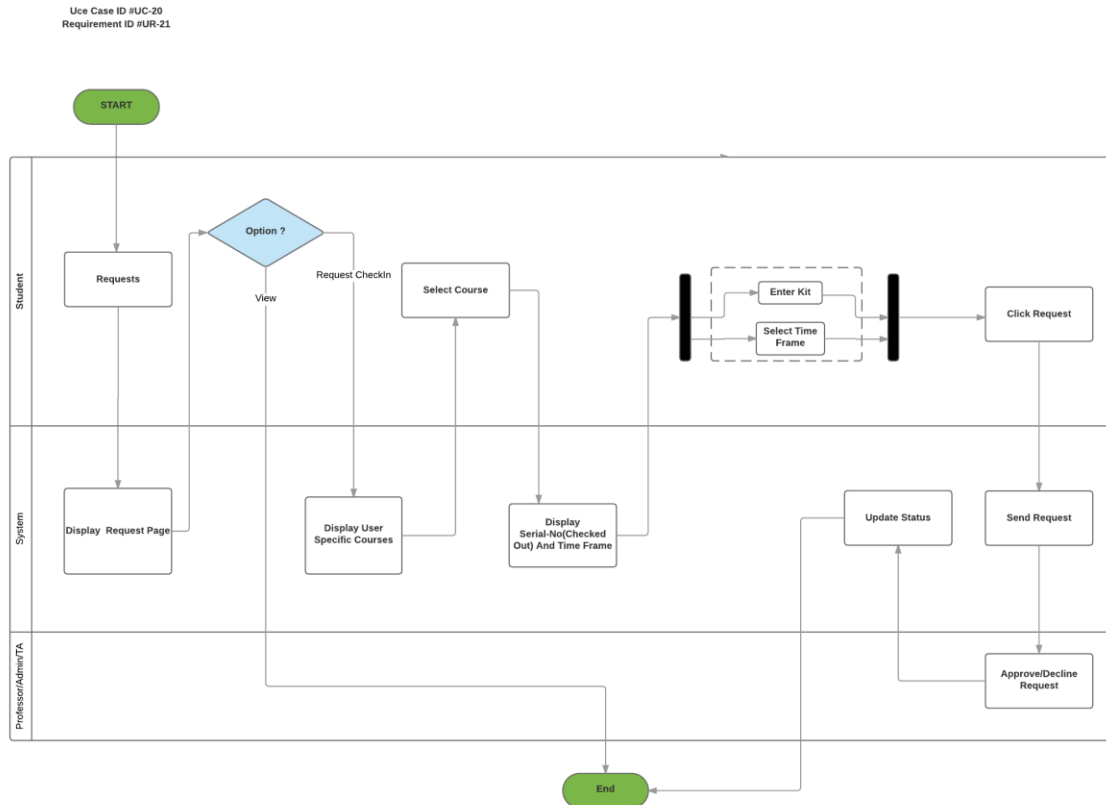EEZON Part 2- Sharath Reddy Vontari

Use Case Name: Request CheckIn Extension [Use Case ID # UC-20]

Description: This activity diagram is for use case 20, where the student can request for checkin extension of his kit.

UC20_REQUESTCHECKINEXTENSION

Sharath Reddy Vontari | March 14, 2017

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Sequence Diagrams:

SEQUENCE DIAGRAM:REQUEST UNAVAILABLE ITEM   Sharath Reddy Vontari | March 14, 2017