

DCS Codex Notification System			
Requirements Traceability Matrix			
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History Revision:			
Revision Date	Person Responsible	Version Number	Modification
11/19/2019	Anica Galano	1.0	Initial Draft (Use Case and Scenarios)
11/20/2019	Rogiella Isidro	1.1	Edits to Use Cases 1.0, 2.0
11/20/2019	Anica Galano	1.2	Edits to Use Cases 3.0, 4.0, 5.0
11/20/2019	Ken Tabagan	1.3	Edits to Use Cases 6.0, 7.0

Use Case No.	Description
UC1.0	Register: Students must be able to register an account into the system
UC2.0	View the Codex: Students and DCS Codex administrators must be able to view the contents of the Codex
UC3.0	Subscribe: Students should be able to subscribe to classes and organizations relevant to them
UC4.0	Request notification: Students must be able to request for notifications to be pushed to other users upon approval of DCS Codex admins
UC5.0	Request entry: Students must be able to request entries to be appended into the Codex
UC6.0	Approve Notifications: DCS Codex administrators must be able to approve notification requests if deemed appropriate and deny otherwise
UC7.0	Approve Entries: DCS Codex administrators must be able to approve entry requests if deemed appropriate and deny otherwise

Use Case No.	Scenario No.	RTM ID	Scenario Description	Priority Status		
UC1.0	S1	UC1-S1	Username already in use	Must Have		
UC1.0	S2	UC1-S2	Email already in use	Could Have		
UC1.0	S3	UC1-S3	Password not strong enough	Won't Have		
UC1.0	S4	UC1-S4	Successful account registration	Must Have		
UC2.0	S1	UC2-S1	User can view the Codex (as Calendar)	Must Have		
UC2.0	S2	UC2-S2	User can view the Codex (as Table)	Could Have		
UC2.0	S3	UC2-S3	Filter Codex contents by subscribed classes and organizations	Could Have		
UC3.0	S1	UC3-S1	Successfully subscribed to class	Must Have		
UC3.0	S2	UC3-S2	Successfully unsubscribed from class	Must Have		
UC3.0	S3	UC3-S3	Successfully subscribed to organization	Must Have		
UC3.0	S4	UC3-S4	Successfully unsubscribed from organization	Must Have		
UC3.0	S5	UC3-S5	No database connection	Must Have		
UC4.0	S1	UC4-S1	Notification request was successfully sent	Must Have		
UC4.0	S2	UC4-S2	Notification request was approved	Must Have		
UC4.0	S3	UC4-S3	Notification request was denied	Must Have		
UC4.0	S4	UC4-S4	Notification request could not be sent: not connected to the Internet	Must Have		
UC4.0	S5	UC4-S5	Invalid: notification request is incomplete	Must Have		
UC5.0	S1	UC5-S1	Entry request was successfully sent	Must Have		
UC5.0	S2	UC5-S2	Entry request could not be sent: not connected to the Internet	Must Have		
UC5.0	S3	UC5-S3	Invalid: entry request is incomplete	Must Have		
UC5.0	S4	UC5-S4	Invalid: entry already exists	Could Have		
UC6.0	S1	UC6-S1	Notification request was approved by the DCS Codex administrator	Must Have		
UC6.0	S2	UC6-S2	Notification request was not approved by the DCS Codex administrator	Must Have		
UC7.0	S1	UC7-S1	Entry request was approved by the DCS Codex administrator	Must Have		
UC7.0	S2	UC7-S2	Entry request was not approved by the DCS Codex administrator	Must Have		

Use Case No.	Scenario No.	RTM ID	Scenario Description	Username exists in system	Requirements met	User Account exists in system	Database connection active	Expected Results
UC1.0	S1	UC1-S1	Username already in use	Yes	Yes	No	Yes	Error Message: Username already in use
UC1.0	S2	UC1-S2	Email already in use	No	Yes	Yes	Yes	Error Message: Account already exists
UC1.0	S3	UC1-S3	Password not strong enough	No	No	No	Yes	Error Message: Password is not strong enough
UC1.0	S4	UC1-S4	Successful account registration	No	Yes	No	Yes	Message: Successfully registered!

Use Case No.	Scenario No.	RTM ID	Scenario Description	Subscription	Filtered?	Database connection active	Expected Results
UC2.0	S1	UC2-S1	User can view the Codex (as Calendar)	CS 191 DCSS	No	Yes	Displays Codex as Calendar
UC2.0	S2	UC2-S2	User can view the Codex (as Table)	CS 191 DCSS	No	Yes	Displays Codex as Table
UC2.0	S3	UC2-S3	Filter Codex contents by subscribed classes and organizations	CS 191 DCSS	Yes	Yes	Displays Filtered Codex (by classes or by organization; on CS 191 and DCSS entries are shown)

Use Case No.	Scenario No.	RTM ID	Scenario Description	Subscription	Subscription in Database	Database connection active	Expected Results
UC3.0	S1	UC3-S1	Successfully subscribed to class	CS 191	Yes	Yes	Message: Sucessfully subscribed!
UC3.0	S2	UC3-S2	Successfully unsubscribed from class	CS 191	No	Yes	Message: Sucessfully unsubscribed!
UC3.0	S3	UC3-S3	Successfully subscribed to organization	DCS Servers	Yes	Yes	Message: Sucessfully subscribed!
UC3.0	S4	UC3-S4	Successfully unsubscribed from organization	DCS Servers	No	Yes	Message: Sucessfully unsubscribed!
UC3.0	S5	UC3-S5	No database connection	CS 191	No	No	Error Message: Timeout

Use Case No.	Scenario No.	RTM ID	Scenario Description	Notification Request	Status	Database connection active	Expected Result
UC4.0	S1	UC4-S1	Notification request was succesfully sent	Date: November 25, 2019 Time: 8PM Message: Physics 72 LE tomorrow! Study! Purpose: To encourage people to study for the exam. Group: Physics 72	Pending	Yes	Message: Notification Request successfully sent!
UC4.0	S2	UC4-S2	Notification request was approved	Date: November 25, 2019 Time: 8PM Message: Physics 72 LE tomorrow! Study! Purpose: To encourage people to study for the exam. Group: Physics 72	Approved	Yes	Status in Notification Requests screen shows "Approved"
UC4.0	S3	UC4-S3	Notification request was denied	Date: November 25, 2019 Time: 8PM Message: Physics 72 LE tomorrow! Study! Purpose: To encourage people to study for the exam. Group: Physics 72	Rejected	Yes	Status in Notification Requests screen shows "Rejected"
UC4.0	S4	UC4-S4	Notification request could not be sent: not connected to the Internet	Date: November 25, 2019 Time: 8PM Message: Physics 72 LE tomorrow! Study! Purpose: To encourage people to study for the exam. Group: Physics 72	None	No	Error Message: Not connected to the internet
UC4.0	S5	UC4-S5	Invalid: notification request is incomplete	Missing purpose	None	Yes	Error message: Missing purpose

Use Case No.	Scenario No.	RTM ID	Scenario Description	Entry Request	Entry Exists in Database	Database connection active	Expected Results
UC5.0	S1	UC5-S1	Entry request was successfully sent	Date: November 26, 2019 Name: Physics 72 LE 3 Info: LP103 Group: Physics 72	No	Yes	Message: Entry request was successfully sent!
UC5.0	S2	UC5-S2	Entry request could not be sent: not connected to the Internet	Date: November 26, 2019 Name: Physics 72 LE 3 Info: LP103 Group: Physics 72	No	No	Error message: Not connected to the internet
UC5.0	S3	UC5-S3	Invalid: entry request is incomplete	Missing info	No	Yes	Error message: Missing info
UC5.0	S4	UC5-S4	Invalid: entry already exists	Date: November 19, 2019 Name: CS 131 LE 3 Info: ERDT Group: CS 131	Yes	Yes	Error message: Entry already exists

Use Case No.	Scenario No.	RTM ID	Scenario Description	Notification Request	Status	Expected Result	Database connection active
UC6.0	S1	UC6-S1	Notification request was approved by the DCS Codex administrator	Date: November 25, 2019 Time: 8PM Message: Physics 72 LE tomorrow! Study! Purpose: To encourage people to study for the exam. Group: Physics 72	Approved	Message: Notification will be sent at the appropriate time	Yes
UC6.0	S2	UC6-S2	Notification request was not approved by the DCS Codex administrator	Date: November 25, 2019 Time: 8PM Message: Physics 72 LE tomorrow! Study! Purpose: To encourage people to study for the exam. Group: Physics 72	Rejected	Message: Notification not approved. You may resubmit another request.	Yes

Use Case No.	Scenario No.	RTM ID	Scenario Description	Entry Request	Status	Expected Result	Database connection active
UC7.0	S1	UC7-S1	Entry request was approved by the DCS Codex administrator	Date: November 26, 2019 Name: Physics 72 LE 3 Info: LP103 Group: Physics 72	Approved	Message: Entry has been added to the Codex.	Yes
UC7.0	S2	UC7-S2	Entry request was not approved by the DCS Codex administrator	Date: November 26, 2019 Name: Physics 72 LE 3 Info: LP103 Group: Physics 72	Rejected	Message: Entry not approved. You may resubmit another request.	Yes