Table 4.1. Use Case Index Table

Project Name: Intelligent Academic Planner				
Use Case ID	Use Case Name	Level	Author	Version
UC-001	Respond to Request	Primary task	Daria Cook	0.2
UC-004	Register	Primary task	Daria Cook	0.7
UC-005	View assessment	Subfunction	Xiaoyu Zhou	0.8
UC-006	View question log	Primary task	Xiaoyu Zhou	0.3
UC-007	Train Watson	Primary task	Xiaoyu Zhou	0.6
UC-009	Real-time translation	Subfunction	Xiaoyu Zhou	0.6
UC-010	Answer quality feedback	Primary task	Xiaoyu Zhou	0.7
UC-011	Ask question	Primary task	Xiaoyu Zhou	0.6
UC-012	Analyze Question	Primary task	Xiaoyu Zhou	0.6
UC-013	Submit Profile	Primary task	Xiaoyu Zhou	0.3
UC-015	Generate Assessment	Primary task	Xiaoyu Zhou	0.3
UC-016	Login	Primary task	Xiaoyu Zhou	0.5
UC-018	Logout	Primary task	Xiaoyu Zhou	0.3
UC-019	Request Assessment	Primary task	Xiaoyu Zhou	0.4
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Use Cases: 1 / 15

Table 4.2. Use Case UC-001

Project Name:		
Use Case ID:	UC-001	
Use Case Name:	Respond to Request	
User Goal:	User approves of advisor viewing assessment	
Scope:	IAP System	
Level:	Primarytask	
Relevant User Reqs:	UF-E	
Relevant System Reqs:	SF-E-05	
Primary Actor:	Student	
Precondition:	User has a request awaiting approval	
Minimal Guarantee:	User's assessment are non-view-able	
Success Guarantee:	User's assessment becomes view-able for advisor that requested	
Trigger:	User requests to respond to request	
	Step Actions	
Success Scenario:	1 The user requests to respond to request	
odoccas occilario.	2 The system asks for user's response	
	3 The user responds	
Extensions:	Branching Scenarios	
3A	Condition: If request is declined	
	Step Actions	
	1 The system sends notification to advisor	
	2 Exit out of functionality	
3B	Condition: If request is accepted	
	Step Actions	
	1 The system sends notification to advisor	
	The system allows advisor to view assessment of student	
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Use Cases: 2 / 15

Table 4.3. Use Case UC-004

Project Name:	
Use Case ID:	UC-004
Use Case Name:	Register
User Goal:	To be recognized by the system.
Scope:	IAP System
Level:	Primarytask
Relevant User Reqs:	UF-F
Relevant System Reqs:	SF-F-01
Primary Actor:	Visitor, System Devleoper
Precondition:	User is viewing program
Minimal Guarantee:	User is not recognized by system
Success Guarantee:	User is recognized by system
Trigger:	User requests to register
	Step Actions
	1 The user requests to register
Success Scenario:	The system asks for registration information
	3 The user inputs registration information
	4 The system validates information
	5 The system accepts user registration
Extensions:	Branching Scenarios
4A	Condition: Information is invalid
	Step Actions
	The system notifies user of invalid information
	2 Return to step 2
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Use Cases: 3 / 15

Table 4.4. Use Case UC-005

Project Name:	
Use Case ID:	UC-005
Use Case Name:	View assessment
User Goal:	User is able to view assessment
Scope:	IAP System
Level:	Subfunction
Relevant User Reqs:	UF-E
Relevant System Reqs:	SF-E-03
Primary Actor:	student, advisor
Precondition:	The user is logged in
Minimal Guarantee:	System does not display student's assessment
Success Guarantee:	system display student's assessment
Trigger:	User requests to view assessments
	Step Actions
Success Scenario:	1 The user requests to view assessments
	The system displays assessments that can be viewed
Extensions:	Branching Scenarios
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Table 4.5. Use Case UC-006

Project Name:	
Use Case ID:	UC-006
Use Case Name:	View question log
User Goal:	User is able to view the question log
Scope:	IAP System
Level:	Primarytask
Relevant User Reqs:	UF-G
Relevant System Reqs:	SF-G-01
Primary Actor:	Adviser, System Developer
Precondition:	User is logged in
Minimal Guarantee:	System does not display question log
Success Guarantee:	System displays question log
Trigger:	User requests to view question log
	Step Actions
	1 The user requests to view question log
Success Scenario:	2 The system asks for filter information
	3 The user enters filter information
	4 The system displays all questions based on filter information
Extensions:	Branching Scenarios
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Table 4.6. Use Case UC-007

Project Name:	
Use Case ID:	UC-007
Use Case Name:	Train Watson
User Goal:	User be able to train watson with new questions that user asked but hasn't been answered
Scope:	IAP System
Level:	Primarytask
Relevant User Reqs:	UF-H
Relevant System Reqs:	SF-A-01
Primary Actor:	System Developer
Precondition:	User is logged in
Minimal Guarantee:	Watson is not further trained
Success Guarantee:	Watson is further trained
Trigger:	User requests to train Watson
	Step Actions
	1 The user request system export new questions
	2 The system export new question list as a text file
	3 The user request system export incorrect answered questions
	4 The system export downvotes answered questions
Success Scenario:	5 The user request view answer quality
	6 The system display the statistical analysis of the answer for each of the questions
	7 The user request view the feedback of answer from user
	The system display the most up voted help feedback for the answer
	9 The user request the analysis of a specific question
	10 The system display analysis of a question by keyterm
Extensions:	Branching Scenarios
1A	Condition: User request system export all new questions from last time export
	Step Actions
	1 The system export question list that is new from last time
1B	Condition: User request system export all new questions by major
	Step Actions
1C	Condition: User request system export all new questions other condition
	Step Actions
	The system export top 10 unanswered FAQ
	2 The system export top 10% unanswered FAQ
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93	

Table 4.7. Use Case UC-009

Project Name:	
Use Case ID:	UC-009
Use Case Name:	Real-time translation
User Goal:	User is able to see input/output in english
Scope:	IAP System
Level:	Subfunction
Relevant User Reqs:	UF-C
Relevant System Reqs:	SF-C-02
Primary Actor:	Visitor, Student, Advisor
Precondition:	User is asking a question
Minimal Guarantee:	Input/output is not translated
Success Guarantee:	System displays translated text
Trigger:	User requests translation
	Step Actions
	1 The user input non-english input
Success Scenario:	The system determines what language is being used
	3 The system translates text to english
	4 The system displays english answer
Extensions:	Branching Scenarios
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Use Cases: 7 / 15

Table 4.8. Use Case UC-010

Project Name:	
Use Case ID:	UC-010
Use Case Name:	Answer quality feedback
User Goal:	User is able to provide feedback on question response.
Scope:	IAP System
Level:	Primarytask
Relevant User Reqs:	UF-H
Relevant System Reqs:	SF-H-01
Primary Actor:	Visitor, Student, Advisor
Precondition:	User is asking a question
Minimal Guarantee:	Feedback is not stored
Success Guarantee:	Feedback is stored
Trigger:	User requests to submit feedback
	Step Actions
	1 The user requests to submit feedback
Success Scenario:	The system allows user to enter feedback
	3 The user submits feedback
	4 The system stores feedback
Extensions:	Branching Scenarios
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Table 4.9. Use Case UC-011

Project Name:		
Use Case ID:	UC-011	
Use Case Name:	Ask question	
User Goal:	User is able to ask questions	
Scope:	IAP System	
Level:	Primarytask	
Relevant User Reqs:	UF-C	
Relevant System Reqs:	SF-C-01,SF-C-02,SF-C-03,SF-C-04,SF-C-05	
Primary Actor:	Visitor, Student, Advisor	
Precondition:	User is viewing program	
Minimal Guarantee:	Question is not logged	
Success Guarantee:	Question is logged	
Trigger:	The user requests to ask a question	
	Step Actions	
	1 The user requests to ask a question	
	2 The system requests user's question	
Success Scenario:	3 The user enters question and requests answer	
Success Scellallo.	4 The system analyzes question << Analyze Question>>	
	5 The system displays answer	
	6 The system logs question to question log	
	7 The system asks user if they would like to submit feedback on answer quality	
Extensions:	Branching Scenarios	
3A	Condition: If user requests translation	
	Step Actions	
	1 The system translates text < <realtime translation="">></realtime>	
7A	Condition: If user requests to provide feedback	
	Step Actions	
	The system requests feedback information << Answer Quality Feedback>>	
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Table 4.10. Use Case UC-012

Project Name: Use Case ID: Use Case Name: Analyze Question User Coal: System determines answer for user Scope: Level: Primary task Relevant User Reqs: UF-C,UF-D Relevant System Reqs: SF-C-01,SF-C-03,SF-C-04,SF-C-05,SF-D-01 Primary Actor: N/A Precondition: User asks a question Question is not analyzed Success Guarantee: Question is analyzed Trigger: User submits a question Step Actions 1 The user submits a question 2 The system performs textual analysis on the question 3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios 1 The system asks user the question 2 The system asks user the question 3 The system asks user the question		
User Coal: System determines answer for user Scope: IAP System Level: Primary task Relevant User Reqs: UF-C,UF-D Relevant System Reqs: SF-C-01,SF-C-03,SF-C-04,SF-C-05,SF-D-01 Primary Actor: N/A Precondition: User asks a question Minimal Guarantee: Question is not analyzed Success Guarantee: Question is analyzed Trigger: User submits a question Success Scenario: Step Actions 1 The user submits a question 2 The system performs textual analysis on the question 3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios 1 The system asks user the question	Project Name:	
User Goal: System determines answer for user Scope: IAP System Level: Primary task Relevant User Reqs: UF-C,UF-D Relevant System Reqs: SF-C-01,SF-C-03,SF-C-04,SF-C-05,SF-D-01 Primary Actor: N/A Precondition: User asks a question Minimal Quarantee: Question is not analyzed Success Quarantee: Question is analyzed Trigger: User submits a question Step Actions 1 The user submits a question 2 The system performs textual analysis on the question 3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios Step Actions 1 The system determines if another question could be asked Step Actions 1 The system determines could be asked	Use Case ID:	UC-012
Scope: IAP System Level: Primary task Relevant User Reqs: UF-C,UF-D Relevant System Reqs: SF-C-01,SF-C-03,SF-C-04,SF-C-05,SF-D-01 Primary Actor: N/A Precondition: User asks a question Minimal Guarantee: Question is not analyzed Success Guarantee: Question is analyzed Trigger: User submits a question Step Actions 1 The user submits a question 2 The system performs textual analysis on the question 3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios 1 The system asks user the question	Use Case Name:	Analyze Question
Level: Primary task Relevant User Reqs: UF-C,UF-D Relevant System Reqs: SF-C-01,SF-C-03,SF-C-04,SF-C-05,SF-D-01 Primary Actor: N/A Precondition: User asks a question Minimal Guarantee: Question is not analyzed Success Guarantee: Question is analyzed Trigger: User submits a question Step Actions 1 The user submits a question 2 The system performs textual analysis on the question 3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios 1 The system asks user the question	User Goal:	System determines answer for user
Relevant User Reqs: UF-C,UF-D Relevant System Reqs: SF-C-01,SF-C-03,SF-C-04,SF-C-05,SF-D-01 Primary Actor: N/A Precondition: User asks a question Minimal Guarantee: Question is not analyzed Success Guarantee: Question is analyzed Trigger: User submits a question Step Actions 1 The user submits a question 2 The system performs textual analysis on the question 3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios 1A Condition: If another question could be asked Step Actions 1 The system asks user the question	Scope:	IAP System
Relevant System Reqs: SF-C-01,SF-C-03,SF-C-04,SF-C-05,SF-D-01 Primary Actor: N/A Precondition: User asks a question Minimal Quarantee: Question is not analyzed Success Quarantee: Question is analyzed Trigger: User submits a question Step Actions 1 The user submits a question 2 The system performs textual analysis on the question 3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios 1A Condition: If another question could be asked Step Actions 1 The system asks user the question	Level:	Primarytask
Primary Actor: N/A Precondition: User asks a question Minimal Guarantee: Question is not analyzed Success Guarantee: Question is analyzed Trigger: User submits a question Step Actions 1 The user submits a question 2 The system performs textual analysis on the question 3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios 1 A Condition: If another question could be asked Step Actions 1 The system asks user the question	Relevant User Reqs:	UF-C,UF-D
Precondition: Minimal Guarantee: Question is not analyzed Success Guarantee: Question is analyzed Trigger: User submits a question Step Actions 1 The user submits a question 2 The system performs textual analysis on the question 3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios 1A Condition: If another question could be asked Step Actions 1 The system asks user the question	Relevant System Reqs:	SF-C-01,SF-C-03,SF-C-04,SF-C-05,SF-D-01
Minimal Guarantee: Question is not analyzed Success Guarantee: Question is analyzed Trigger: User submits a question Step Actions 1 The user submits a question 2 The system performs textual analysis on the question 3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios 1A Condition: If another question could be asked Step Actions 1 The system asks user the question	Primary Actor:	N/A
Success Guarantee: Question is analyzed Trigger: User submits a question Step Actions 1 The user submits a question 2 The system performs textual analysis on the question 3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios 1A Condition: If another question could be asked Step Actions 1 The system asks user the question	Precondition:	User asks a question
Trigger: User submits a question Step Actions 1 The user submits a question 2 The system performs textual analysis on the question 3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios 1A Condition: If another question could be asked Step Actions 1 The system asks user the question	Minimal Guarantee:	Question is not analyzed
Step Actions 1 The user submits a question 2 The system performs textual analysis on the question 3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios Condition: If another question could be asked Step Actions 1 The system asks user the question	Success Guarantee:	Question is analyzed
Success Scenario: 1 The user submits a question 2 The system performs textual analysis on the question 3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios Condition: If another question could be asked Step Actions 1 The system asks user the question	Trigger:	User submits a question
Success Scenario: 2 The system performs textual analysis on the question 3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios 1 Condition: If another question could be asked Step Actions 1 The system asks user the question		Step Actions
3 The system determines if another question could be asked to clarify answer 4 The system displays answer Extensions: Branching Scenarios 1 Condition: If another question could be asked Step Actions 1 The system asks user the question		1 The user submits a question
4 The system displays answer Extensions: Branching Scenarios 1A Condition: If another question could be asked Step Actions 1 The system asks user the question	Success Scenario:	The system performs textual analysis on the question
Extensions: Branching Scenarios 1A Condition: If another question could be asked Step Actions 1 The system asks user the question		The system determines if another question could be asked to clarify answer
1A Condition: If another question could be asked Step Actions 1 The system asks user the question		4 The system displays answer
Step Actions 1 The system asks user the question	Extensions:	Branching Scenarios
1 The system asks user the question	1A	Condition: If another question could be asked
		Step Actions
2. The wear year and to group firm		1 The system asks user the question
Ine user responds to question		2 The user responds to question
3 Return to step 2 in main scenario using response given		3 Return to step 2 in main scenario using response given
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Use Cases: 10 / 15

Table 4.11. Use Case UC-013

Project Name:	
Use Case ID:	UC-013
Use Case Name:	Submit Profile
User Goal:	User can create profile
Scope:	IAP System
Level:	Primarytask
Relevant User Reqs:	UF-E
Relevant System Reqs:	SF-E-01,SF-E-02,SF-E-03,SF-E-04,SF-E-05
Primary Actor:	student
Precondition:	User is logged in
Minimal Guarantee:	Profile is not stored
Success Guarantee:	Profile is stored
Trigger:	User requests to update profile
	Step Actions
Success Scenario:	1 The user requests to update profile
ouccess occilario.	2 The system verify the profile
	3 The system upload the profile to server
Extensions:	Branching Scenarios
2A	Condition: If system detect invalid format of the profile
	Step Actions
	1 The system notify user of problem
	2 Return to step 1
Acknowledgment: Generated from the CapStone process management system ©2015	

Use Cases: 11 / 15

Table 4.12. Use Case UC-015

Project Name:		
Use Case ID:	UC-015	
Use Case Name:	Generate Assessment	
User Goal:	User receives assessment of profile information	
Scope:	IAP System	
Level:	Primarytask	
Relevant User Reqs:	UF-E	
Relevant System Reqs:	SF-E-04,SF-E-05	
Primary Actor:	Student	
Precondition:	User has submitted information to profile	
Minimal Guarantee:	No assessment generated	
Success Guarantee:	System generate assessment and display to user	
Trigger:	User requests to generate assessment	
	Step Actions	
Success Scenario:	1 The user requests to generate assessment	
odoocoo oociidiio.	The system analyzes profile and generates assessment	
	3 The system displays assessment	
Extensions:	Branching Scenarios	
3A	Condition: keep assessment on user's record	
	Step Actions	
	1 The user request system save the assessment	
	The system upload assessment to server and relate to user account	
3B	Condition: The user request assessment to be viewable by advisers	
	Step Actions	
	1 The user request assessment to be viewable by advisers	
	The system mark user's assessment as public and save to user's account	
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Use Cases: 12 / 15

Table 4.13. Use Case UC-016

Project Name:			
Use Case ID:	UC-016		
Use Case Name:	Login		
User Goal:	User is able to log in		
Scope:	IAP System		
Level:	Primarytask		
Relevant User Reqs:	UF-A		
Relevant System Reqs:	SF-A-01		
Primary Actor:	Student, Advisor, System Devel		
Precondition:	User is registered		
Minimal Guarantee:	User is not logged in		
Success Guarantee:	User is logged in		
Trigger:	User requests to log in		
Success Scenario:	Step Actions		
	1 The user request to login to the system		
	2 The system verifies user's login credential		
	3 The system logs in user		
Extensions:	Branching Scenarios		
2A	Condition: login credential doesn't match account info		
	Step Actions		
	1 The system notifies user of problem		
	2 Return to step 1		
Acknowledgment: Gene	Acknowledgment: Generated from the CapStone process management system ©2015		

Use Cases: 13 / 15

Table 4.14. Use Case UC-018

Project Name:	
Use Case ID:	UC-018
Use Case Name:	Logout
User Goal:	User is able to log out
Scope:	IAP System
Level:	Primarytask
Relevant User Reqs:	UF-B
Relevant System Reqs:	SF-B-01
Primary Actor:	Student, Advisor, System Devel
Precondition:	User is logged in
Minimal Guarantee:	User is not logged out
Success Guarantee:	User is logged out
Trigger:	User requests to log out
Success Scenario:	Step Actions
	1 The user requests to logout
	The system verifies all information is saved
	3 The system logs users out
Extensions:	Branching Scenarios
2A	Condition: If some information is unsaved
	Step Actions
	The system checks if user still wants to log out
	2 The user responds
	3 BRANCH - If user responds no exit functionality. Else - Continue on.
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Use Cases: 14 / 15

Table 4.15. Use Case UC-019

Project Name:		
Use Case ID:	UC-019	
Use Case Name:	Request Assessment	
User Goal:	System notify student that an adviser wants to see his assessment	
Scope:	IAP System	
Level:	Primarytask	
Relevant User Reqs:	UF-E	
Relevant System Reqs:	SF-E-05	
Primary Actor:	Advisor	
Precondition:	User is logged in	
Minimal Guarantee:	No request is sent	
Success Guarantee:	Request is sent	
Trigger:	User requests to send request to student	
Success Scenario:	Step Actions	
	1 The user requests to send request to student	
	The system asks for student information	
	3 The user inputs student information	
	4 The system validates student information	
	5 The system sends request to student	
Extensions:	Branching Scenarios	
4A	Condition: If invalid student information	
	Step Actions	
	1 The system notifies user of problem	
	2 Return to step 2	
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Use Cases: 15 / 15