

Table 4.1. Use Case Index Table

Project Name: Intelligent Academic Planner				
Use Case ID	Use Case Name	Level	Author	Version
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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-010	Answer quality feedback	Primary task	Xiaoyu Zhou	0.7
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UC-012	Analyze Question	Primary task	Xiaoyu Zhou	0.6
UC-013	Submit Profile	Primary task	Xiaoyu Zhou	0.3
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UC-019	Request Assessment	Primary task	Xiaoyu Zhou	0.4
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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:	Primary task
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
Success Scenario:	Step Actions
	1 The user requests to respond to request
	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
	2 The system allows advisor to view assessment of student
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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:	Primary task
Relevant User Reqs:	UF-F
Relevant System Reqs:	SF-F-01
Primary Actor:	Visitor, System Developer
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
Success Scenario:	Step Actions
	1 The user requests to register
	2 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
	1 The system notifies user of invalid information
	2 Return to step 2
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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
Success Scenario:	Step Actions
	1 The user requests to view assessments
	2 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:	Primary task
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
Success Scenario:	Step Actions
	1 The user requests to view question log
	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:	Primary task
Relevant User Reqs:	UF-H
Relevant System Reqs:	SF-A01
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
Success Scenario:	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
	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
	8 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
	1 The system export top 10 unanswered FAQ
	2 The system export top 10% unanswered FAQ
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Table 4.7. 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:	Primary task
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
Success Scenario:	Step Actions
	1 The user requests to submit feedback
	2 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 4.8. 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:	Primary task
Relevant User Reqs:	UF-C
Relevant System Reqs:	SF-C-01,SF-C-04
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
Success Scenario:	Step Actions
	1 The user requests to ask a question
	2 The system requests user's question
	3 The user enters question and requests answer
	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
7A	Step Actions
	1 The system translates text <<Realtime Translation>>
7A	Condition: If user requests to provide feedback
	Step Actions
	1 The system requests feedback information <<Answer Quality Feedback>>
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Table 4.9. Use Case UC-012

Project Name:	
Use Case ID:	UC-012
Use Case Name:	Analyze Question
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-04,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
1A	Condition: If another question could be asked
	Step Actions
	1 The system asks user the question
	2 The user responds to question
	3 Return to step 2 in main scenario using response given
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Table 4.10. 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:	Primary task
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
Success Scenario:	Step Actions
	1 The user requests to update profile
	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
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Table 4.11. 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:	Primary task
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
Success Scenario:	Step Actions
	1 The user requests to generate assessment
	2 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
	2 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
	2 The system mark user's assessment as public and save to user's account
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Table 4.12. 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:	Primary task
Relevant User Reqs:	UF-A
Relevant System Reqs:	SF-A01
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
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Table 4.13. 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:	Primary task
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
	2 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
	1 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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Table 4.14. 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:	Primary task
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
	2 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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