

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-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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Table 4.2. Use Case UC-001

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

<b>Project Name:</b>	
<b>Use Case ID:</b>	UC-004
<b>Use Case Name:</b>	Register
<b>User Goal:</b>	To be recognized by the system.
<b>Scope:</b>	IAP System
<b>Level:</b>	Primary task
<b>Relevant User Reqs:</b>	UF-F
<b>Relevant System Reqs:</b>	SF-F-01
<b>Primary Actor:</b>	Visitor, System Developer
<b>Precondition:</b>	User is viewing program
<b>Minimal Guarantee:</b>	User is not recognized by system
<b>Success Guarantee:</b>	User is recognized by system
<b>Trigger:</b>	User requests to register
<b>Success Scenario:</b>	<b>Step    Actions</b>
	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
<b>Extensions:</b>	<b>Branching Scenarios</b>
4A	<b>Condition:</b> Information is invalid
	<b>Step    Actions</b>
	1    The system notifies user of invalid information
	2    Return to step 2
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Table 4.4. Use Case UC-005

<b>Project Name:</b>	
<b>Use Case ID:</b>	UC-005
<b>Use Case Name:</b>	View assessment
<b>User Goal:</b>	User is able to view assessment
<b>Scope:</b>	IAP System
<b>Level:</b>	Subfunction
<b>Relevant User Reqs:</b>	UF-E
<b>Relevant System Reqs:</b>	SF-E-03
<b>Primary Actor:</b>	student, advisor
<b>Precondition:</b>	The user is logged in
<b>Minimal Guarantee:</b>	System does not display student's assessment
<b>Success Guarantee:</b>	system display student's assessment
<b>Trigger:</b>	User requests to view assessments
<b>Success Scenario:</b>	<b>Step    Actions</b>
	<b>1</b> The user requests to view assessments
	<b>2</b> The system displays assessments that can be viewed
<b>Extensions:</b>	<b>Branching Scenarios</b>
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Table 4.5. Use Case UC-006

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

<b>Project Name:</b>	
<b>Use Case ID:</b>	UC-007
<b>Use Case Name:</b>	Train Watson
<b>User Goal:</b>	User be able to train watson with new questions that user asked but hasn't been answered
<b>Scope:</b>	IAP System
<b>Level:</b>	Primary task
<b>Relevant User Reqs:</b>	UF-H
<b>Relevant System Reqs:</b>	SF-A01
<b>Primary Actor:</b>	System Developer
<b>Precondition:</b>	User is logged in
<b>Minimal Guarantee:</b>	Watson is not further trained
<b>Success Guarantee:</b>	Watson is further trained
<b>Trigger:</b>	User requests to train Watson
<b>Success Scenario:</b>	<b>Step Actions</b>
	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
<b>Extensions:</b>	<b>Branching Scenarios</b>
1A	<b>Condition:</b> User request system export all new questions from last time export
	<b>Step Actions</b>
	1 The system export question list that is new from last time
1B	<b>Condition:</b> User request system export all new questions by major
	<b>Step Actions</b>
1C	<b>Condition:</b> User request system export all new questions other condition
	<b>Step Actions</b>
	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

<b>Project Name:</b>	
<b>Use Case ID:</b>	UC-010
<b>Use Case Name:</b>	Answer quality feedback
<b>User Goal:</b>	User is able to provide feedback on question response.
<b>Scope:</b>	IAP System
<b>Level:</b>	Primary task
<b>Relevant User Reqs:</b>	UF-H
<b>Relevant System Reqs:</b>	SF-H-01
<b>Primary Actor:</b>	Visitor, Student, Advisor
<b>Precondition:</b>	User is asking a question
<b>Minimal Guarantee:</b>	Feedback is not stored
<b>Success Guarantee:</b>	Feedback is stored
<b>Trigger:</b>	User requests to submit feedback
<b>Success Scenario:</b>	<b>Step    Actions</b>
	<b>1</b> The user requests to submit feedback
	<b>2</b> The system allows user to enter feedback
	<b>3</b> The user submits feedback
	<b>4</b> The system stores feedback
<b>Extensions:</b>	<b>Branching Scenarios</b>
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Table 4.8. Use Case UC-011

<b>Project Name:</b>	
<b>Use Case ID:</b>	UC-011
<b>Use Case Name:</b>	Ask question
<b>User Goal:</b>	User is able to ask questions
<b>Scope:</b>	IAP System
<b>Level:</b>	Primary task
<b>Relevant User Reqs:</b>	UF-C
<b>Relevant System Reqs:</b>	SF-C-01,SF-C-04
<b>Primary Actor:</b>	Visitor, Student, Advisor
<b>Precondition:</b>	User is viewing program
<b>Minimal Guarantee:</b>	Question is not logged
<b>Success Guarantee:</b>	Question is logged
<b>Trigger:</b>	The user requests to ask a question
<b>Success Scenario:</b>	<b>Step Actions</b>
	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
<b>Extensions:</b>	<b>Branching Scenarios</b>
3A	<b>Condition:</b> If user requests translation
7A	<b>Step Actions</b>
	1 The system translates text <<Realtime Translation>>
7A	<b>Condition:</b> If user requests to provide feedback
	<b>Step Actions</b>
	1 The system requests feedback information <<Answer Quality Feedback>>
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Table 4.9. Use Case UC-012

<b>Project Name:</b>	
<b>Use Case ID:</b>	UC-012
<b>Use Case Name:</b>	Analyze Question
<b>User Goal:</b>	System determines answer for user
<b>Scope:</b>	IAP System
<b>Level:</b>	Primary task
<b>Relevant User Reqs:</b>	UF-C,UF-D
<b>Relevant System Reqs:</b>	SF-C-01,SF-C-04,SF-D-01
<b>Primary Actor:</b>	N/A
<b>Precondition:</b>	User asks a question
<b>Minimal Guarantee:</b>	Question is not analyzed
<b>Success Guarantee:</b>	Question is analyzed
<b>Trigger:</b>	User submits a question
<b>Success Scenario:</b>	<b>Step    Actions</b>
	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
<b>Extensions:</b>	<b>Branching Scenarios</b>
1A	<b>Condition:</b> If another question could be asked
	<b>Step    Actions</b>
	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

<b>Project Name:</b>	
<b>Use Case ID:</b>	UC-013
<b>Use Case Name:</b>	Submit Profile
<b>User Goal:</b>	User can create profile
<b>Scope:</b>	IAP System
<b>Level:</b>	Primary task
<b>Relevant User Reqs:</b>	UF-E
<b>Relevant System Reqs:</b>	SF-E-01,SF-E-02,SF-E-03,SF-E-04,SF-E-05
<b>Primary Actor:</b>	student
<b>Precondition:</b>	User is logged in
<b>Minimal Guarantee:</b>	Profile is not stored
<b>Success Guarantee:</b>	Profile is stored
<b>Trigger:</b>	User requests to update profile
<b>Success Scenario:</b>	<b>Step    Actions</b>
	1    The user requests to update profile
	2    The system verify the profile
	3    The system upload the profile to server
<b>Extensions:</b>	<b>Branching Scenarios</b>
2A	<b>Condition:</b> If system detect invalid format of the profile
	<b>Step    Actions</b>
	1    The system notify user of problem
	2    Return to step 1
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Table 4.11. Use Case UC-015

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

<b>Project Name:</b>	
<b>Use Case ID:</b>	UC-016
<b>Use Case Name:</b>	Login
<b>User Goal:</b>	User is able to log in
<b>Scope:</b>	IAP System
<b>Level:</b>	Primary task
<b>Relevant User Reqs:</b>	UF-A
<b>Relevant System Reqs:</b>	SF-A01
<b>Primary Actor:</b>	Student, Advisor, System Devel
<b>Precondition:</b>	User is registered
<b>Minimal Guarantee:</b>	User is not logged in
<b>Success Guarantee:</b>	User is logged in
<b>Trigger:</b>	User requests to log in
<b>Success Scenario:</b>	<b>Step Actions</b>
	1 The user request to login to the system
	2 The system verifies user's login credential
	3 The system logs in user
<b>Extensions:</b>	<b>Branching Scenarios</b>
2A	<b>Condition:</b> login credential doesn't match account info
	<b>Step Actions</b>
	1 The system notifies user of problem
	2 Return to step 1
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Table 4.13. Use Case UC-018

<b>Project Name:</b>	
<b>Use Case ID:</b>	UC-018
<b>Use Case Name:</b>	Logout
<b>User Goal:</b>	User is able to log out
<b>Scope:</b>	IAP System
<b>Level:</b>	Primary task
<b>Relevant User Reqs:</b>	UF-B
<b>Relevant System Reqs:</b>	SF-B-01
<b>Primary Actor:</b>	Student, Advisor, System Devel
<b>Precondition:</b>	User is logged in
<b>Minimal Guarantee:</b>	User is not logged out
<b>Success Guarantee:</b>	User is logged out
<b>Trigger:</b>	User requests to log out
<b>Success Scenario:</b>	<b>Step    Actions</b>
	1    The user requests to logout
	2    The system verifies all information is saved
	3    The system logs users out
<b>Extensions:</b>	<b>Branching Scenarios</b>
2A	<b>Condition:</b> If some information is unsaved
	<b>Step    Actions</b>
	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

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