GRADUATE CERTIFICATE: Intelligent Reasoning Systems (IRS) PRACTICE MODULE: Project Proposal

Date of proposal:	
06 November 2021	
Project Title:	
Travel Helper	

Sponsor/Client: (Name, Address, Telephone No. and Contact Name)

Institute of Systems Science (ISS) at 25 Heng Mui Keng Terrace, Singapore NATIONAL UNIVERSITY OF SINGAPORE (NUS)

Contact: Mr. GU ZHAN / Lecturer & Consultant

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Background/Aims/Objectives:

The proposed intelligent recommendation system will help people to book the right ticket, choose the right hotel, and provide them with more places to visit, so that they can plan their travel more reasonably in the limited time.

Requirements Overview:

- Research ability
- Programming ability
- System integration ability

Resource Requirements (please list Hardware, Software and any other resources)

Hardware proposed for consideration:

CPU

Software proposed for consideration:

- Reasoning systems: Rule-based
- Pertained machine learning models: NLP model
- Machine learning use cases: Orange3
- Deep learning tools: Python
- High level and flexible application programming interface

Number of Learner Interns required: (Please specify their tasks if possible)

A team of 3 members

Methods and Standards:

Procedures	Objective	Key Activities	
		Gather & Analyze Requirements	
Requirement Gathering and Analysis	The team should meet with ISS to scope the details of project and ensure the achievement of business objectives.	Define internal and External Design	
		3. Prioritize & Consolidate Requirements	
		4. Establish Functional Baseline	
Technical Construction	To develop the source code in accordance to the design.	Setup Development Environment	
	To perform unit testing to ensure the quality before the components are integrated as a whole project	2. Understand the System Context, Design	
		3. Perform Coding	
		4. Conduct Unit Testing	
Integration Testing and acceptance testing	To ensure interface compatibility and confirm that the integrated system hardware and system software meets requirements and is ready for acceptance testing.	Prepare System Test Specifications	
		2. Prepare for Test Execution	
		Conduct System Integration Testing	
		4. Evaluate Testing	
		5. Establish Product Baseline	
Acceptance Testing	To obtain ISS user acceptance that the system meets the requirements.	Plan for Acceptance Testing	
		2. Conduct Training for Acceptance Testing	
		Prepare for Acceptance Test Execution	
		4. ISS Evaluate Testing	
		5. Obtain Customer Acceptance Sign-off	
Delivery	To deploy the system into production (ISS standalone server) environment.	Software must be packed by following ISS's standard	
		Deployment guideline must be provided in ISS production (ISS standalone server) format	
		Production (ISS standalone server) suppo and troubleshooting process must be defined.	

Team Formation & Registration

Team Name: Team 1
Project Title (repeated): Travel Helper
System Name (if decided): Travel Helper
Team Member 1 Name: Liu Ding
Team Member 1 Matriculation Number: A0231429J
Team Member 1 Contact (Mobile/Email): e0703461@u.nus.edu
Team Member 2 Name: Zeng Hanyu
Team Member 2 Matriculation Number: A0231558A
Team Member 2 Contact (Mobile/Email): e0703590@u.nus.edu
ream Member 2 Contact (Mobile/Email). e0/03390@d.nds.edd
Team Member 3 Name: He Mingyang
Team Member 3 Matriculation Number: A0231408N
Team Member 3 Contact (Mobile/Email): e0703440@u.nus.com
ream Member 3 Contact (Mobile/Email). 60703440@u.nus.com

For ISS Use Only			
Programme Name:	Project No:	Learner Batch:	
Accepted/Rejected/KIV:			
Learners Assigned:			
Learners Assigned.			
Advisor Assigned:			
Contact: Mr. GU ZHAN / Lectu Telephone No.: 65-6516 8021	irer & Consultant		
Email: <u>zhan.gu@nus.edu.sg</u>			