

Sri Lanka Institute of Information Technology



Research Project

IT4010

B.Sc. (Hons) in Information Technology

Status Document 2

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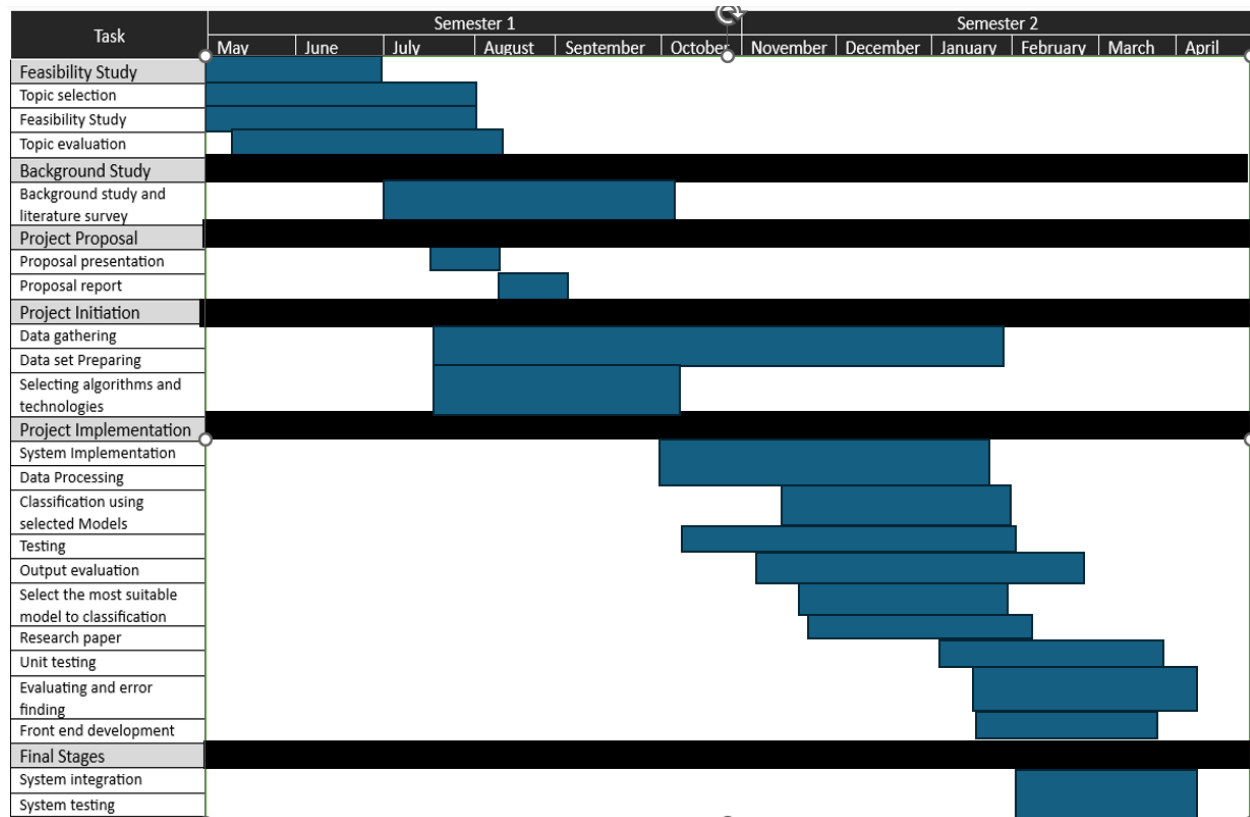
Specialization: Software Engineering

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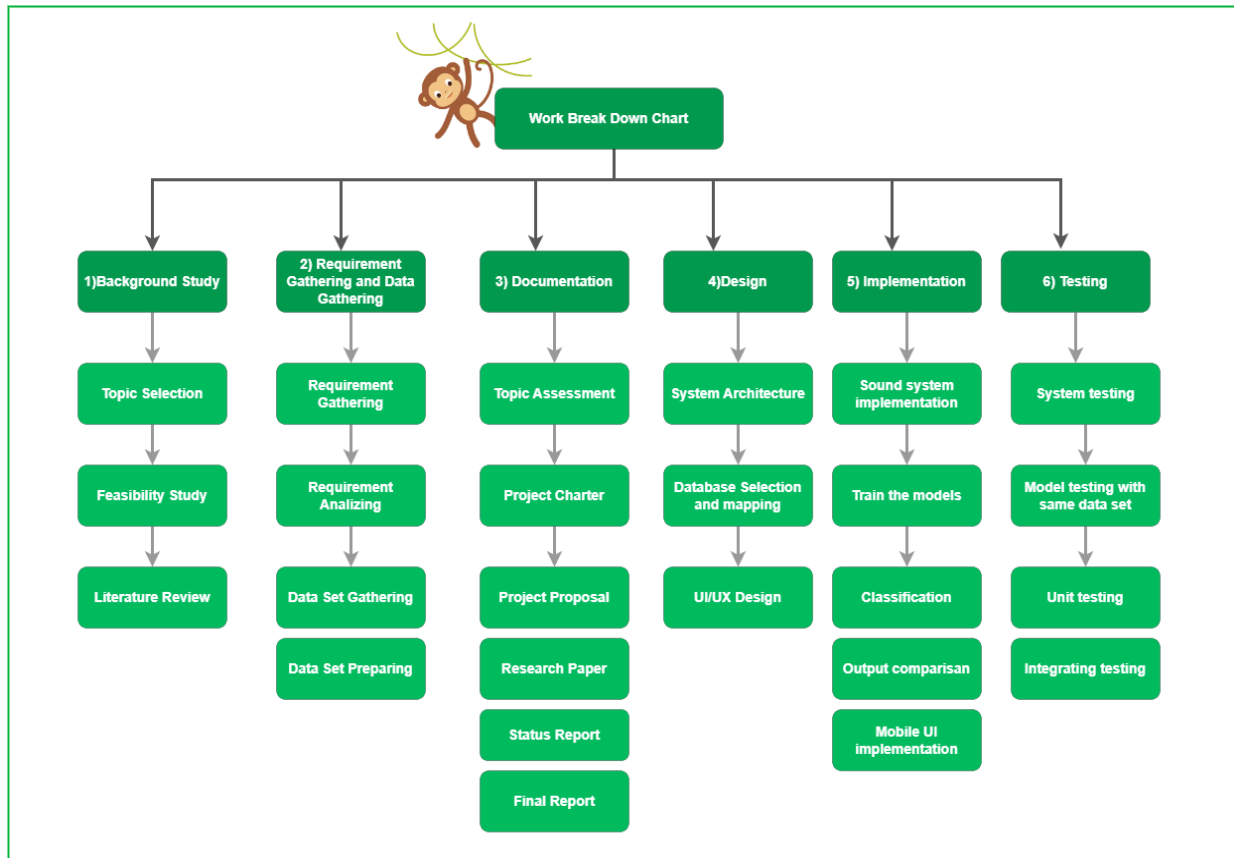
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Gantt Chart



System Work Breakdown Chart



Research Tracker

Main tasks	Sub Tasks	Status	Completed Date
Data Collection	<ul style="list-style-type: none"> Collect Data sets from the previous researches. 	Completed	10/02/2024
	<ul style="list-style-type: none"> Field visit and collect data. 	Completed	
	<ul style="list-style-type: none"> Collect audios from the internet. 	Executing for increase the data set	
	<ul style="list-style-type: none"> Cut the audios and preprocess them. 	Executing	
Model Implementation	<ul style="list-style-type: none"> Model implementation. 	Completed	22/01/2024
	<ul style="list-style-type: none"> Test the models. 	Executing	02/03/2024
IOT Device Implementation and Testing	<ul style="list-style-type: none"> Select the devices. Brought the devices. Devices connect and implementation. Testing 	Completed	15/09/2023
		Completed	02/11/2023
		Completed	10/01/2024
		Executing	04/03/2024
			02/03/2024
Front End Development		Planning	30/03/2024
Backend Development		Planning	01/04/2024

Meetings

Date	Reason	Mode
11/07/2023	Discuss about the topic selection	Physical
19/07/2023	Finalize the topic	Physical
22/07/2023	Discuss about Proposal presentation	Teams
11/08/2023	Discuss about proposal issues	Hybrid
18/08/2023	Finalize the Components	Hybrid
25/08/2023	Discuss about TAF	Hybrid
01/09/2023	Initial awareness for progress presentation 1	Teams
06/10/2023	Prep for Progress Presentation	Physical
31/10/2023	Final Prep for Progress Presentation	Physical
10/11/2023	Discuss about the PP1 Comments	Hybrid
01/12/2023	Discuss component progress & related issues	Hybrid
15/12/2023	Initial awareness for research paper publication	Hybrid
22/12/2023	Discuss progress of the research paper & components	Hybrid
19/01/2024	Discuss progress of the research paper & components	Teams
26/01/2024	Discuss progress of the research paper & components	Teams
16/02/2024	Discuss progress of the research paper & components	Teams
16/03/2024	Final Prep for Progress Presentation 2	Physical

Meetings with co-supervisor

Date	Reason	Mode
11/07/2023	Discuss about the topic selection	Physical
19/07/2023	Finalize the topic	Physical
06/10/2023	Discuss component progress & related issues	Teams
27/10/2023	Discuss about Progress presentation	Teams

Challengers and Solutions

Challenge	Solution
Model accuracy in the device	Implement several models and change activation functions, layers and epochs and train.
	Test with implemented device and results evaluating. Choose the best model according to test results.
Choosing the devices for the implementation	Change the devices and try other devices with respect to the problems.