

Task 2: Requirements Traceability Matrix

REQUIREMENTS TRACEABILITY MATRIX					
Project Name:		Gender Bias AI			
Project Manager Name:		YAP Jin Heng			
Project Description:		This project aims to develop a face recognition model optimised against gender bias.			
ID	Requirements (Functional or Non-Functional)	Assumption(s) and/or Customer Need(s)	Category	Source	Status
001	The AI model reads images and videos	Users need the AI model to classify images and videos.	Functional	Project Supervisor	Open
002	The AI model detects faces	Users need the model to scan faces in images and videos.	Functional	Project Supervisor	Open
003	The AI model labels subjects according to their gender	Users need the model to classify human subjects according to gender, which is the main function of the product.	Functional	Project Supervisor	Open
004	A web platform to upload images and videos	Users need a platform to upload content to use the AI face recognition model.	Functional	Project Supervisor	Open
005	The AI model operates on various file encoding formats	Users will submit images and videos in various formats, such as PNG, JPG, GIF, MP4.	Service	Project Supervisor	Open
006	APIs to operate the model with various programming languages	Developers need to operate the face recognition model from different programming languages.	Service	Project Supervisor	Open
007	The AI model operates on both desktops and mobile devices	Users will use the model for face recognition on all types of devices.	Service	Project Supervisor	Open
008	The AI model completes identification within 5 seconds of the user request	The model must be fast enough to be considered a viable addition to most applications.	Performance	Project Supervisor	Open
009	A system to test and evaluate the performance of the AI model	The project team needs to evaluate the performance statistics of the model to identify directions for improvement.	Quality	Project Supervisor	Open
010	The AI model has a low misidentification rate (less than 5%) between male and female subjects	The model must have a low misidentification rate disparity between genders to prove it is not susceptible to gender bias.	Quality	Project Supervisor	Open
011	Developer documentation	Developers need to understand how to operate the model to incorporate it into their applications.	Training	Project Supervisor	Open