NTT Data: Object Recognition with Augmented Reality

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Client: Praveen Selvaraj

Project Abstract

- Our project is designed to help medical professionals use medical devices by using smart
 glasses to create a hands-free helper. We use the smart glasses camera to perform object
 recognition on medical devices, display name of the object and overlay the instructions on the
 smart glasses.
- Smart Glasses with Object Recognition through Machine Learning
- Main Technologies
 - a. Epson Smart Glasses
 - b. Tensorflow
 - c. Augmented Reality
 - d. Epson Moverio SDK
 - **e**. Photogrammetry to make models of objects
 - f. Android Studio IDE

Achievement Table

ID	Requirements	Priority	State	Contributors	
1	Object detection	Must	1	Joseph	
2	Receive instructions from database	Must	Х		
3	Overlay instructions on object	Must	Х		
4	Easy addition of new objects by admin	Must	Х		
5	Retain existing features of original NTT app "sOps"	Should	Х		
6	Change sOps to meet these new requirements	Should	Х		
7	Good user experience	Should	Х		
8	Not for specific Epson device, compatible with Android	Should	1	Joseph	
9	Improve UI of sOps	Could	Х		
10	Responds to voice recognition	Could	Х		
Key Functionalities (must have and should have)			20% completed		
Optional Functionalities (could have)			0% completed		

Team Contribution Slide

Work packages	Joseph	Xuanwei	Duncan
Client liaison	90%	0%	10%
Requirement analysis	50%	30%	20%
Research	60%	30%	10%
UI Design	80%	10%	10%
Programming	90%	10%	0%
Bi-weekly Report	90%	5%	5%
Website Editing	40%	40%	20%
Pitch Presentation	0%	0%	100%
Overall contribution	70%	15%	15%
Roles	Front End	Front End Developer,	Slide Designer, Pitch
	Developer, Website	Website Editor,	Presentation,
	Design and Editing,	Researcher	Website Editor
	Researcher, Report		
	Writer, Client		
	Liaison		