

ECE498B: Prototype Checklist Consultant: Fill this in before completing the *Final Prototype Demonstration Grading Sheet*

Group number (e.g., 2023.75): 2023.12


Project title: NeAR Me

Project objective: (This may be ignored.)

Specification	Essential specification (yes/no)?	Procedure to be used to show that the specification is met	For consultant's use	
			Pass/Fail	Comments
Users must be able to create a new account with a username and password.	yes	Manual testing on app build	P	
Users must be able to login with the correct username and password.	yes	Manual testing on app build	P	
Users must be able to subscribe to topics from a set of default topics.	yes	Manual testing on app build	P	
Users must be able to create and publish/subscribe to custom topics.	yes	Manual testing on app build	F	
Users must be able to receive topic recommendations for topics they are not subscribed to.	no	Manual testing on app build, backend unit test	F	
Users must be able to become authorized to publish to topics at a specific location.	yes	Manual testing on app build	P	
Users must be able to publish to topics only at locations they are authorized to publish at.	yes	Manual testing on app build	F	
Users must be able to comment on any topic at any location.	yes	Manual testing on app build	P	
Users must be able to see only information from topics that they are subscribed to.	yes	Manual testing on app build	P	
Users must be able to read comments.	yes	Manual testing on app build	P	

Users must be able to change the number of entries rendered in AR to between 1 and 100 entries.	yes	Manual testing on app build	F	
Users must be able to see content in AR that is up to 100 m away.	yes	Manual testing on app build	P	

Users must be able to see new AR content appear within 1 s of them moving.	yes	Manual testing on app build, latency test script	P	
Users must be able to like/dislike the displayed contents.	no	Manual testing on app build	F	
Users must be able to change their profile avatar, username, and description.	no	Manual testing on app build	P	
Users must be able to adjust the AR content's GPS location and size before publishing it to a topic.	no	Manual testing on app build	P	
Users must have to login only once.	no	Manual testing on app build	P	
Users can filter the displayed contents by preference (i.e. preference on topics, sort by newest, most-liked, etc.)	no	Manual testing on app build	P	
Users must not see AR content if it is behind a physical object.	yes	Manual testing on app build	F	
Users must be able to publish entries as large as 2.5 m by 2.5 m.	yes	Manual testing on app build	P	
Users must be able to insert text input for publication with an upper bound of 140 characters.	yes	Manual testing on app build	P	
Users must be able to insert image input for publication with a 5 MB upper bound on image size.	no	Manual testing on app build	P	
The backend must be scalable across multiple servers, at least one per region served, to ensure service availability.	yes	Cloud deployment PoC	P	
Users can be served by the app in the case of a single server failure.	yes	Cloud deployment PoC	P	

The mobile application must be compatible with most ARcapable models of Android devices running Android 7 or newer.	yes	Manual testing on app build	P	
The total cost of the project should not exceed 600 CAD.	no		P	
The user interface should provide a smooth user experience; easy to navigate.	yes	Manual testing on app build	P	
Users must be able to change the font size for the UI text display.	yes	Manual testing on app build	P	
Users must be able to publish up to 1 topic entry per minute.	yes	Manual testing on app build	P	
Users must be able to see AR content within 5 m of its actual location.	yes	Manual testing on app build, latency test script	P	
<p>Other consultant comments:</p> <p>The NearMe group has done a great job overall. Minor glitches are to be fixed by the symposium day.</p>				
<p>Consultant's signature: </p>			<p>Date: <u>2023/03/07</u></p>	