

EEE3035 Engineering Professional Studies

Semester 1 2022/23 - Year 3 Group Project

Equality Impact Assessment

Question	Response
1. Name of the project being assessed; include the group letter	Smart Fridge Group I
2. Summary of aims and objectives of the project	A system of cameras and sensors to automatically detect what items are being placed into and taken from the fridge (alongside collection possible other data about the items such as expiration data, weight, etc). This information is then presented to the user, alongside recommendations such as recipes or shopping lists.
3. What involvement and consultation has been done in relation to this project? (e.g. with relevant groups and stakeholders)	There was a brief discussion with the project supervisor to get approval for the development of the smart fridge idea. The members of the group received training to use the University of surrey makerspace to develop the project.
4. Who is affected by the project?	Only the users of the Smart Fridge
5. What are the arrangements for monitoring and reviewing the actual impact of the project?	We will consult the project supervisor throughout the project to ensure that we minimize the impact of the project.

Protected Characteristic Group	Is there a potential for positive or negative impact?	Please explain and give examples of any evidence/data used	Action to address negative impact (e.g. adjustment to the project)
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Disability	Negative Impact	People with motor problems would not be able to use the Fridge.	There are 3 rd party products available which make it easier for disabled users to open fridges and place items within it such as extended handles for the door. On the app we can promote these products to help reduce this negative impact whilst also potentially gaining additional profit through advertisements. Allow users to input which products they are allergic to, so they aren't promoted to them.
	Positive Impact	People with vision impairments might find it easier to view the contents of their fridge on an app rather than need to look closely at labels.	
	Negative Impact	People with allergies or intolerances getting recommended recipes which use a food they are allergic to.	
Gender reassignment	No known impact		
Marriage or civil partnership	No known impact		
Pregnancy and maternity	No known impact		
Race	No known impact		
Religion or belief	Negative impact	In some religions eating specific types of food such as pork is against their belief. Therefore, if our recipes promote these products, the user might feel discriminated against by the product	Allow the user to manually block recommendations for specific types of food that is prohibited by their religion.
Sexual orientation	No known impact		
Sex (gender)	No known impact		
Age	Positive Impact	Elderly people are more susceptible to memory loss issues,	

		therefore a product which automatically keeps inventory for them as well as reminds them when something is out of date will positively impact them.	
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Evaluation: On the basis of your responses above, please complete the table below with one member of the group signing off the form.

Question	Explanation / justification	
Is it possible the proposed project could discriminate or unfairly disadvantage people?	If we address the potential negative impacts as above, our product will not discriminate or unfairly disadvantage people.	
Final Decision	Tick the relevant box	Include any explanation / justification required
1. No barriers identified, therefore project will proceed.	X	Any potential bias of the customer has been considered and will be addressed when building the product.
2. You can decide to stop the project because the data shows bias towards one or more groups.		
3. You can adapt or change the project in a way which you think will eliminate the bias.		
4. Barriers and impact identified, however having considered all the available options carefully, there appears to be no other proportionate ways to achieve the aim of the project. Therefore, proceed with caution with the activity knowing it may favour some people less than others, providing justification for this decision.		

Confirm that this EIA will be included in the project report.	Yes
Date Completed	18/10/2022
Review date (before the final project report)	22/10/2022