* **IT Technologies**

**Robots**

**What does it do?**

The state of the art of robots is that this technology can be used for a wide range of purposes. Robot can be used for many different tasks such as in production lines at factories, at workplaces, at home for assistance and many more tasks. Robots can be designed and built differently for different purposes for example at a factories they will be designed to be able to do things which humans are supposed to do. Therefore, the robot will be able to replace humans for certain jobs because robots will be able to do certain tasks more efficiently compared to humans.

What we can do right now is that we can build robots which are programmed to do certain basic tasks however robots should not be able to do what they are not programmed to do. For example, making major decisions which could be life threatening. Therefore, tasks such as replacing humans at checkouts with robots which is basic task rather than having artificial intelligence robot which are can make decisions.

In three years time robots will be designed to replace humans in jobs such a in factories on the production line or in retail stores at checkout.

**What is the likely impact?**

The potential impact of this technological development is that majority of task which require human effort will be replaced with robots. This is because robots are more efficient and will be able to perform certain tasks better than humans.

What is likely to change is that the use of robots will increase in different facets of human life. Robot will be designed for the most basics of tasks however also the more complex tasks therefore it will be common to have robots everywhere.

The people who will be most affected will be for the people who work in trade and at factories because robot are more likely to replace their jobs. However, the positive affect which robots will have is that robots can be designed to provide assistance therefore this purpose will have a greater positive affect for people who will benefit from robots.

Robots however will replace and make redundant of current jobs this is because robots are more efficient at certain tasks compared to humans. Therefore any job which does not require serious decision making will be replaced by this new technology ‘robots’. Serious decision making means to make decision which affect a human by causing harm to them. Therefore, jobs such as police officer which require serious decision making will not be replaced by robot. Jobs like these require human because human have emotions and knowledge decide between what is accepted or not whereas robots do not.

**How will this affect you?**

In your daily life, how will this affect you? What

will be different for you? How might this affect members of your family or your friends?

This will affect my life because robots will become a part of how everything functions for example for the basic of tasks robot will be used. Therefore, it will be normal to see robots at a variety of different places. Some task will become easier however some may become harder because robots do have some flaws for example robots do not have the ability of feeling emotions. Therefore robots will not be good at some tasks which humans are better at.

What difference this will make for me will be that

* **Project ideas**
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* **Overview**

This project is about developing a smart phone application which can compensate for a doctor/GP for minor health problems for example a cold or cough. The application will be created for android and iOS devices and the target audience for this application is everyone within the ages of 18-65. The application will be simple to use and useful to majority of users. This app is useful because it will be able to suggest remedies to users when they enter their symptoms. This project of creating this app will require to write software which is able to answer the user’s queries.

* **Motivation**

The application aims to eliminate the need of going to the doctor for minor health problems or when the doctors are closed. This application will act as a virtual doctor. This will be useful because 70% of patients who go to the doctors are usually prescribed medication which is also available without a prescription hence it is available at the chemist over the counter. Therefore, the only reason they go to the doctors is to find out which medication to take. This application aims to teach users about their symptoms and it tells them to which medication to take.

* **Description**

The main feature on this application will be a search bar where the users can search up the causes or treatments for their symptoms. Firstly, the user will enter their details such as their age, weight, allergies and if they have any medical history which effects their health today for example if they have diabetes or if they have had a cardiac arrest before, excreta. The users detail will also be anonymous however it will be taken under consideration while suggesting the cause or treatment for the user’s symptoms.

Once the user enters their details the app will tell the user to enter their symptoms for example if they have a headache or a cold. Then it will ask how much pain they are experiencing from a scale of 1 to 10 and if the user answer it being on the low end of the scale (0-3) the app will suggest medications which they will be able to buy at the chemist without a prescription. However, if the user is experiencing major pain for example 7 -10 on the scale the app will suggest calling an ambulance. In some situations, the app may also suggest that CPR should be performed on the user if they are finding it difficult to breath while the ambulance is on the way. If the user is experiencing medium pain for example 4-6 on the scale the app will suggest the user to see a doctor/GP.

All the responses given by the app to the users will be set under the guidance of real and reputed doctors. Therefore, this app will be safe to use, and all the treatments advised by the app will be set using the recommendations of certified doctors. The app will only give personalised responses to users for example different users have different health conditions like diabetes therefore the responses given by the app will vary as the situations change. This is because some medications are not suitable for different patients. The app will also advise the user the possibilities for what is causing the problem which will help the users to prevent these issues to occur again or at least take precautions. Hence this app will also teach the users about the medical problem they are experiencing.

* **Tools and technology**

To make this application work we will need technology such as a software developer and servers. The tools needed for making this application will be a laptop. Technologies which are used to run mobile application such as online servers and call centres. The call centers will be used if the users are having any difficulty while using the application.

* **Skill required**

The main skill which will be required to do this project is application software writing skills. Other skills needed will be design skills because this application must be designed according to the users (User Centred Design). Also skills such as developing the user interface and interaction. Knowledge about medications and symptoms will need to be known.

* **Outcome**

If this project is successful, the world will be different because users will know how to prevent their illnesses as they will know what is causing them. The original problem was having to go to the doctors for minor problems and this application will solve this problem by tell the user what is wrong with them via the application. The impact this development will have is that the users will save time on having to go to the doctor. This