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**DESIGN AND IMPLEMENTATION OF AN INTELLIGENT HEALTHCARE CHATBOT SYSTEM**

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Our system provides convenient health assistance right at your fingertips. It could predict a diseases based on user symptoms and age, thereby reducing the need for lengthy doctor consultations. Additionally, it provides detailed drug descriptions upon query and offers route maps to nearby hospitals for added convenience.

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**Prerequisites:**

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•Python 3.6 or later

•android studio IDE

•MySQL 5.0 or later

•Jupyter notebook.

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**Packages**

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* dlib==19.8.1
* mysql-connector-python==8.0.26
* numpy==1.19.5
* pandas==1.1.5
* matplotlib.pyplot==3.8.4
* scikit-learn==0.24.2
* seaborn==12.0b.3
* scipy==1.13.0

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**Installation:**

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To install the required packages, run the following command:

pip install <package\_name>

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**Files:**

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**The project contains the following files:**

* bot.java, databasehelper.java, feedbackfragment.java, homefragment.java, infofragment.java, log.java, login\_fragment.java, logout\_fragment.java, logspage.java, MainActivity.java, nearby.java,signup\_fragment.java, SplashActivity.java
* “Drug details.xml” folder contains the drug names including with usage, contradictions, dosage and sideeffects of the drug
* “Predict disease.xml” folders consists of 100 symptoms and relevant disease name

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**How to run:**

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**step 1:** First install those softwares and packages

**step 2:** Open the android studio create a project and place the source code in that project folder

**step 3:** First run the application

**step 4:** Now, in connected device go to signup page and give your details to create your account.

**step 5:** Then, go to chatbot activity and choose your option (1.predict disease 2. Drug details)

**step 5.1:** Predict disease is choosen, provide the details which chatbot request, to know the disease you are suffering with.

**step 5.**2: Drug details is choosen, here provide the drug name to know the usage, contradiction, dosage and sideeffects of the drug

**Step 6:** After getting required information go back to home page

**step 7:** Go to nearby hospitals activity and click on browse to get the route map of nearby healthcare facilities

**step 8:** Go to info page to know the features this application is providing

**step 9:** Now, go to feedback form activity to submit your valuable experience on chatbot