

1 Introduction

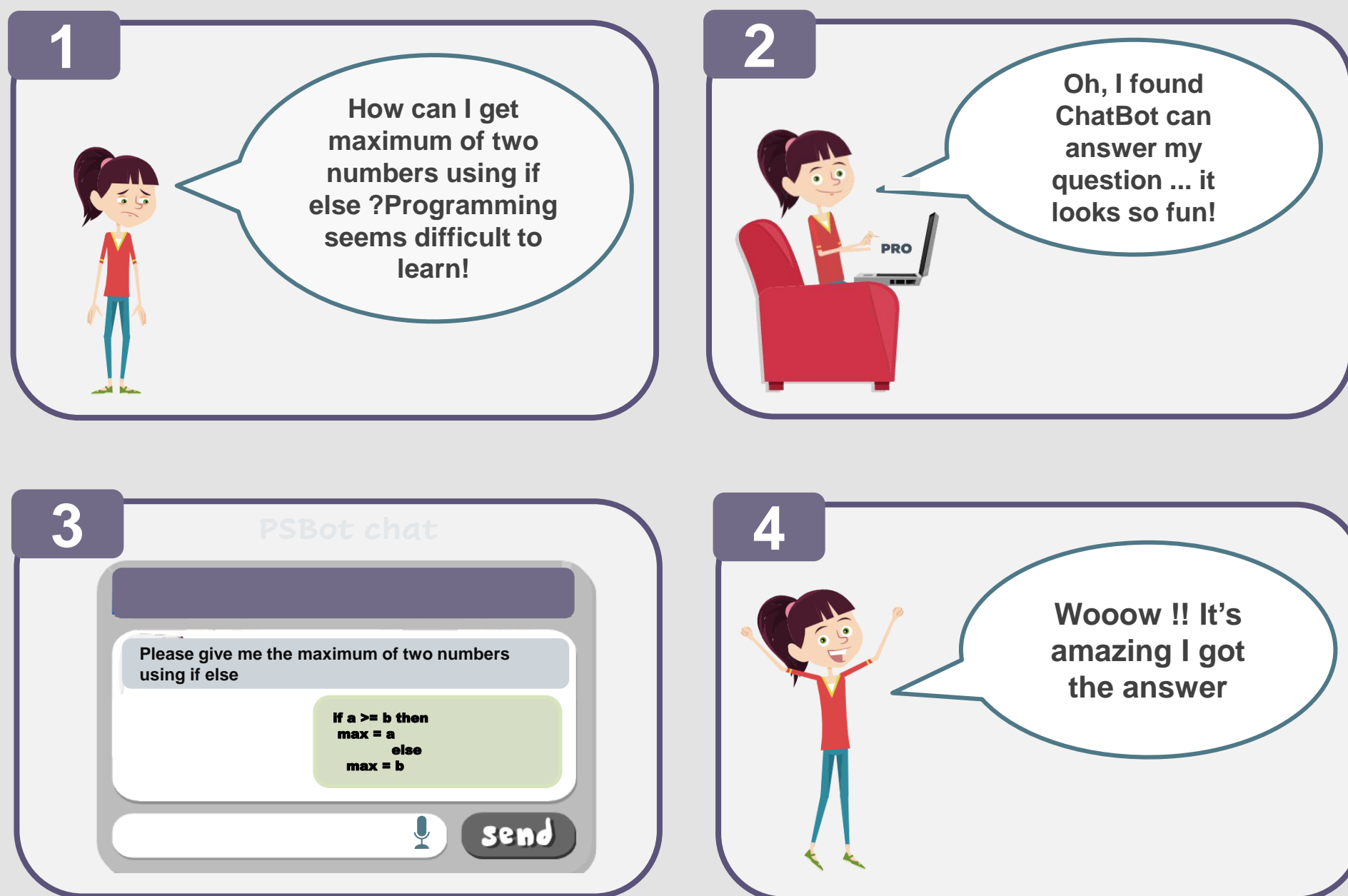
Learning programming has become a demand of many people; even children learn programming from young ages.

Beginners in learning programming suffer from lack of knowledge of the correct way, and correct resources in learning programming. It is also difficult to communicate with other programmers, as the learner does a lot of searches and audits , and takes time and effort to reach the desired results.

From this point this project aim to use technology to help the learners of programming to learn in new ways. and the most interested way is chatbot because it has become a major breaking technological innovation of the recent decades.

The chatbot contributed in education through conversation between bot and learners. While learners enjoy and get the desired pseudocode answer with brief description .

2 Proposed solution



3 Objectives



Building an educational a chatbot.

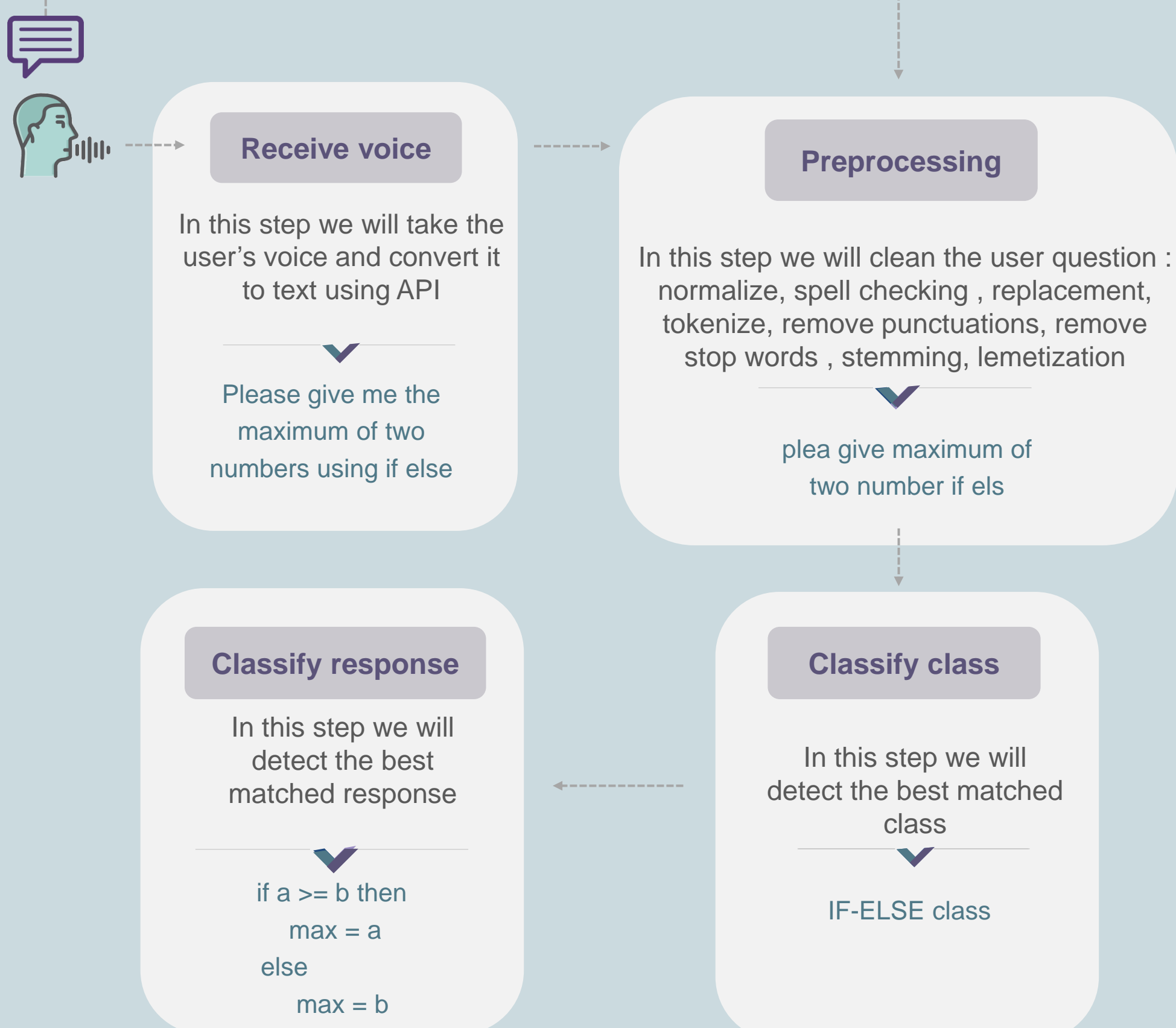


Communicating with real programmers.



Save time and effort.

4 Chatbot's Algorithm



5 Development tools



6 Training

The data set was collected from the first-level of computer programming at Umm Al-Qura University in the College of Computer and Information Systems

The dataset has 714 rows of data with 15 classes. Chatbot cover all basic concept of programming such as : Selection statements , looping and arrays .

7 Testing

❖ **Response time** : the chat bot take a few millisecond to answer



8 Conclusion

The project provide the following services :

- ❖ Users able to ask the chatbot using voice or text.
- ❖ Users and programmers able to communicate with each other.
- ❖ Users can follow the latest programming news.
- ❖ Programmers can upload programming news .

9 References & contact information

Contact information :

Supervisor Dr.Samia Souissi : smsouissi@uqu.edu.sa
Kholoud Khalid Owais : Kholoud.Owais@hotmail.com
Reem Moteb Alrogi : reem_alrooqi@hotmail.com
Waad Mohammed Alotaibi : w.a.3.d@outlook.sa
Amjad HulayyilAlotabi : amgad443344@gmail.com
Maryam Alsalik Fal : Mayam35@hotmail.com

References :

