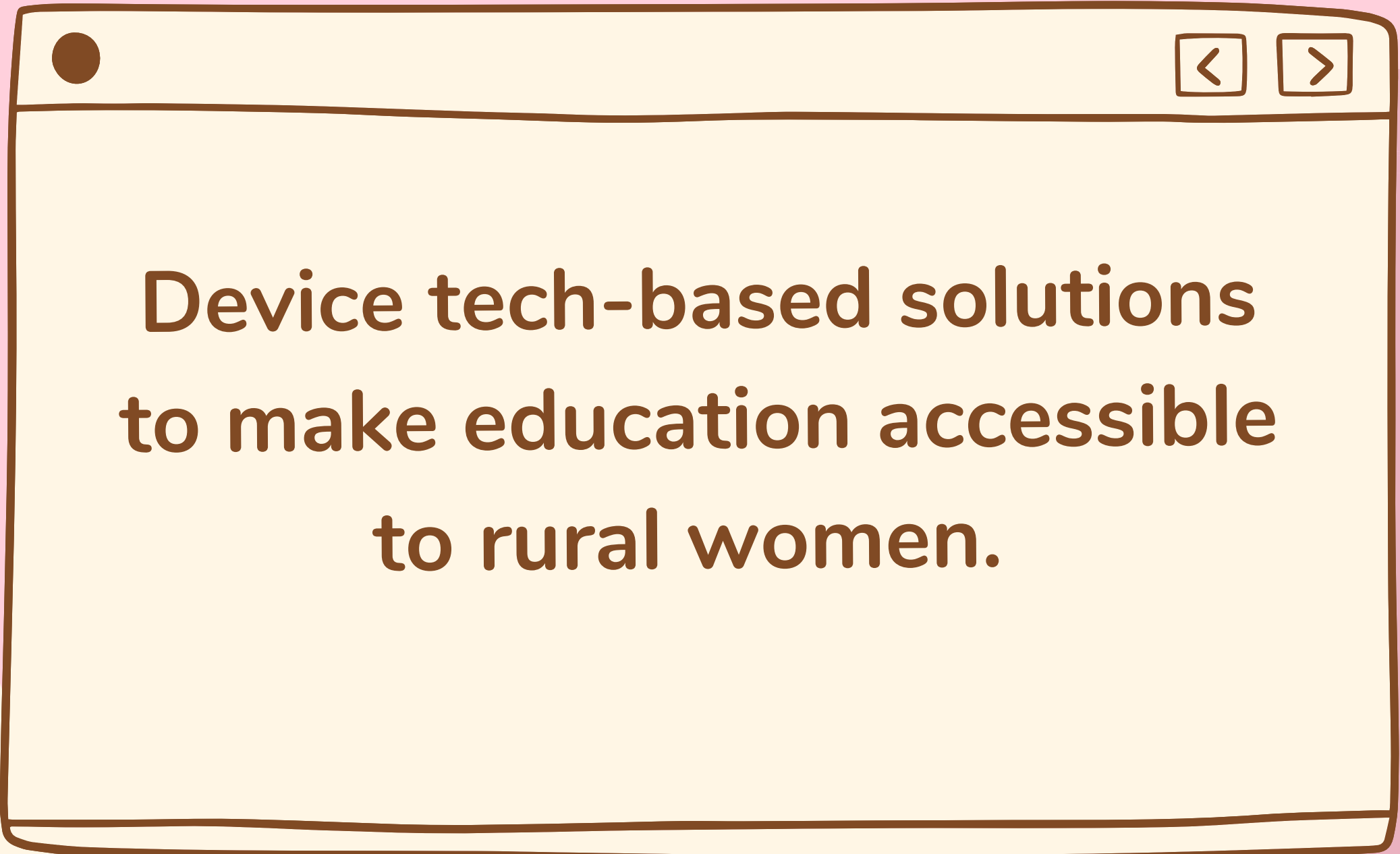


Paathshala

~By Brogrammers



Problem Statement



Device tech-based solutions
to make education accessible
to rural women.



The illustration features a woman with dark hair in a grey suit, holding a pink document and pointing at a large screen. The screen displays the word 'Solution' in a brown serif font. The screen has a window-like border with three icons in the top right corner. A pink flower is positioned above the screen, and a wavy line is on the right side. The background is light beige with abstract pink and orange shapes.

Solution



The idea is to make education more accessible to rural women by developing a web service to bridge the gap between education and poverty. This chatbot feature will enable women in rural backgrounds to access educational materials in different cross-cultural languages by automatic translation and autosuggestion to ensure an upward learning graph. A special audio feature is provided in this application for audio listeners and auditory learners.



The learning material is accessed from reliable resources like Rashtriya Madhyamik Shiksha Abhiyan (RMSA), Beti Bachao Beti Padhao(BBBP) and Central Board of Secondary Education(CBSE), is provided according to previous application history of the study materials accessed by the user. Meanwhile, ensuring a holistic approach to female students growth with various subjects like personal finance, physics, moral science, history, environmental studies, economics, emotional intelligence and many more.

This application aims to be the one stop solution to prepare young girls to become successful women irrespective of their financial backgrounds, by achieving mastery in all necessary life skills.

We wish to develop an offline version for the same to provide the opportunity of basic education to everyone.

Tech Stack

FRONTEND

- HTML
- CSS
- JavaScript
- React.js
- Email.js
- Swiper.js

BACKEND

- Python
- Azure Translator API
- Azure Text to Speech API

TOOLS USED

- Visual Studio Code
- Azure Portal
- Postman



Approach



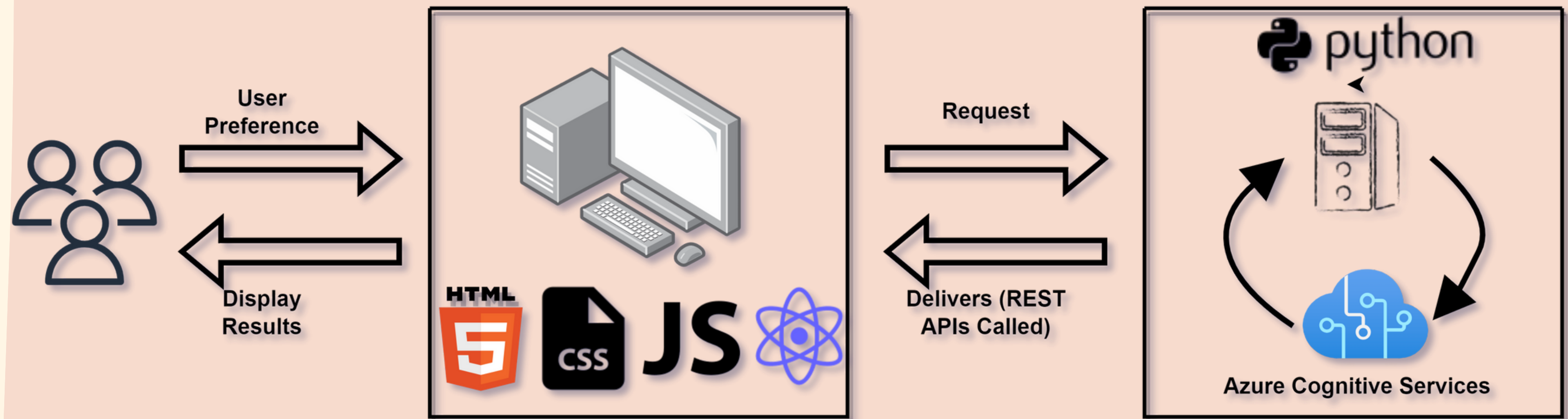
App language selection: The user selects the language in which they wish to use the application services. The User Interface changes according to Users input, developed using HTML, CSS and Js.

Study Material selection: Choice of multiple courses.

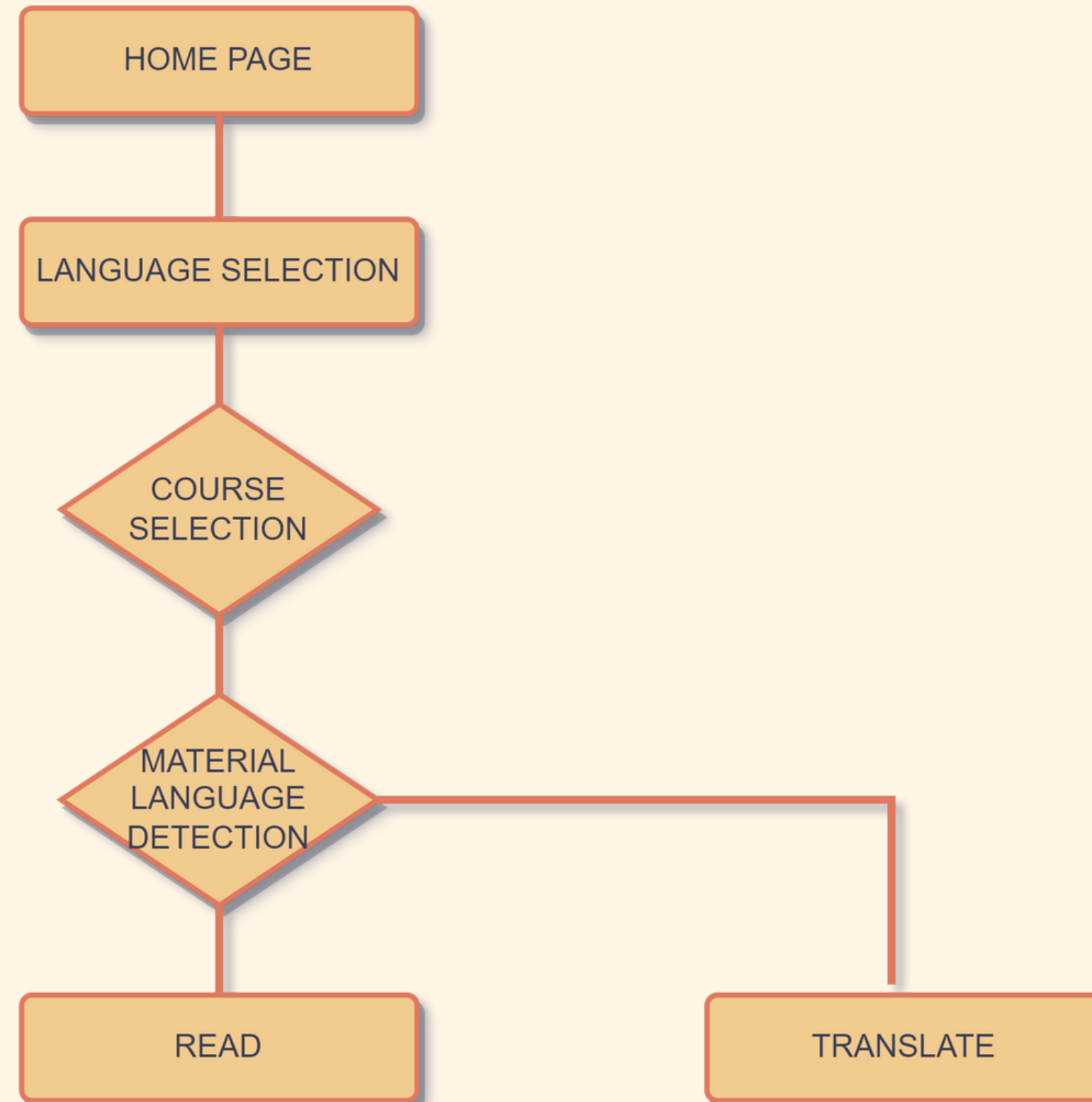
Language Detection: According to user's selection of course, material is provided. The language of the given material is analyzed by the application.

Read/Translate: Accordingly the study material is converted to speech using Azure Text to Speech SDK or translated to another language using Azure Translator API

Architecture Diagram



Flow Chart



Future Scope

- Image to text and audio

To develop additional feature of detecting text from images scanned by user. The detected text can be translated or converted to speech.

- Offline access

Providing an offline version of this application will ensure users with no to limited internet connectivity to browse conveniently from the comfort of their homes.

- Human Computer Interaction

Vocal interactions to ensure one-on-one learning specially curated according to students need.

- Unlimited courses

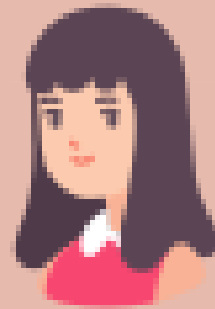
Unlimited courses for unlimited learning.

Team Members



Shruti Gupta

(Amity University,
Noida. B.Tech
Computer Science and
Engineering. 2020-24)



Jaharvi Joshi

(Amity University,
Noida. B.Tech
Computer Science and
Engineering. 2020-24)



Akanksha Kushwaha

(Amity University,
Noida. B.Tech
Computer Science and
Engineering. 2020-24)



A hand-drawn illustration of a web browser window. The window has a brown outline and a light beige interior. At the top, there is a navigation bar with a back arrow, a forward arrow, and a search bar. To the right of the search bar are three window control icons: a caret, a square, and an equals sign. The main content area of the browser displays the text "Thank You" in a large, bold, brown font, followed by "Happy programming, wear your glasses to C#" in a smaller, brown font. The browser window is set against a light beige background. To the right of the window is a large, pink, multi-pointed starburst. On the left side, there is a light pink circular shape and a brown squiggly line. On the bottom right, there is a light pink curved line.

Thank You

Happy programming, wear your
glasses to C#