

GREETING CARD WEB APPLICATION

1. What Are We Building?

We are building a **Digital Greeting Card Web Application**.

It is an interactive greeting card where:

- 🎉 User sees a birthday card cover
- 📖 Clicking the cover opens the card with a smooth animation
- ✉️ A personalized greeting message appears inside
- ❤️ A signature/message is displayed
- ❌ User can close the card using a button

The greeting card runs directly inside the browser without requiring any backend server.

2. Technologies Used

innovbit AI Lab

Technology	What it is used for
HTML	Creates the structure of the greeting card
CSS	Adds colors, animations, and styling
JavaScript	Controls opening and closing of the card

3. Before Starting (Setup)

Install VS Code

Download from:

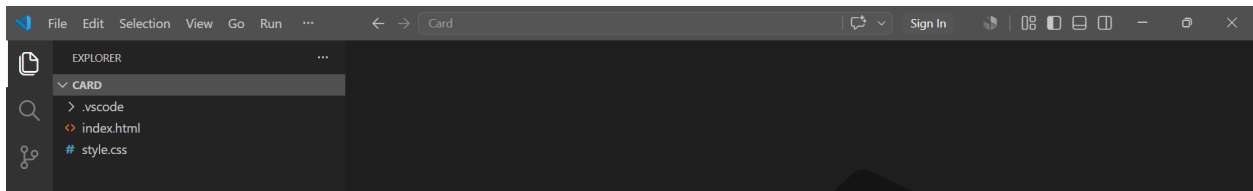
<https://code.visualstudio.com>

This helps you write and run the project files easily.

4. Create Project Structure

Create the following folder structure:

- `index.html`
- `style.css`



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5. Frontend Development

File: `index.html`

This file creates:

- Greeting card structure
- Birthday cover page
- Greeting message
- Open/close functionality

Step 5.1: Create HTML Document

```
<!DOCTYPE html>  
<html lang="en">
```

This starts the HTML webpage.

Step 5.2: Add Page Title

```
<title>Greeting Card</title>
```

Sets the browser tab title.

Step 5.3: Connect CSS File

```
<link rel="stylesheet" href="style.css" />
```

Links the external stylesheet.

Step 5.4: Create Main Container

```
<div class="container">
```

Acts as the wrapper for the greeting card.

Step 5.5: Create Card Structure

```
<div class="card" id="card">
```

Creates the complete card component.

The card contains:

- Cover page
- Inside content

Step 5.6: Create Card Message

```
<div class="inside">
```

Displays the greeting message:

```
<p> May your day be filled with happiness,  
laughter, success, and countless  
beautiful memories. </p>
```

This is the personalized birthday wish shown when the card opens.

Step 5.7: Add Signature

```
<p class="signature">  
with love,  
<br>  
your_name  
</p>
```

Displays the sender's name and signature.

Step 5.8: Add Close Button

```
<button onclick="closeCard()">  
Close Card  
</button>
```

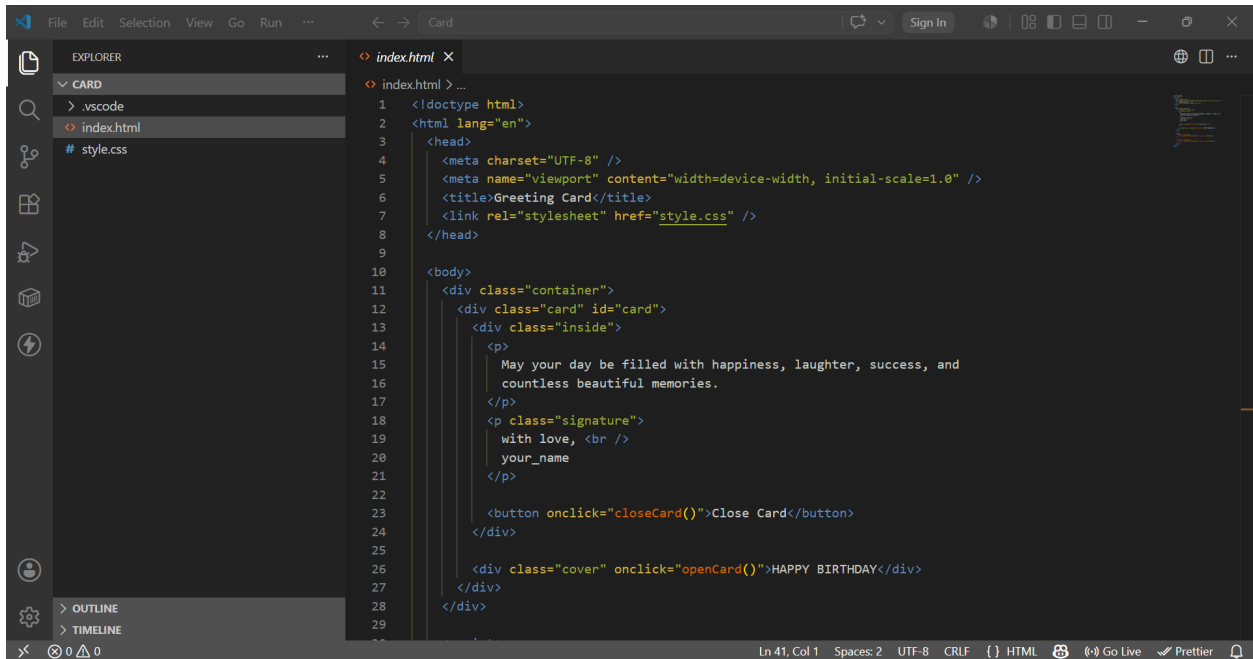
Allows the user to close the greeting card.

Step 5.9: Create Card Cover

```
<div class="cover" onclick="openCard()">  
HAPPY BIRTHDAY  
</div>
```

This is the front side of the card.

When clicked, it opens the card.



6. JavaScript Functionality

JavaScript controls the opening and closing animations.

Step 6.1: Open Card Function

```
function openCard()
{
    document.getElementById("card")
        .classList.add("open");
}
```

What it does:

- Finds the card element
- Adds the "open" class
- Triggers CSS animation
- Opens the greeting card

Step 6.2: Close Card Function

```
function closeCard() {  
    document.getElementById("card")  
        .classList.remove("open");  
}
```

What it does:

- Removes the "open" class
- Restores original card state
- Closes the greeting card

7. Styling

File: style.css



This file makes the greeting card attractive and interactive.

Step 7.1: Reset Default Styling

```
*{  
    margin:0;  
    padding:0;  
    box-sizing:border-box;  
}
```

Ensures consistent layout across browsers.

Step 7.2: Style the Page

```
body  
{
```

```
    height:100vh;
    display:flex;
    justify-content:center;
    align-items:center;
}
```

Center the card on the screen.

Additional styling adds:

- Full screen layout
- Beautiful gradient background
- Better user experience

Step 7.3: Add Gradient Background

```
background:
linear-gradient
(
  135deg,
  #ff9a9e,
  #fad0c4,
  #fbc2eb
);
```

The logo for Innovbit AI Lab, featuring the word "innovbit" in blue, "AI" in red, and "Lab" in blue, with a small pink triangle to the left of "innovbit".

Creates a colorful birthday-themed background.

Step 7.4: Add 3D Perspective

```
.container
{
    perspective:1500px;
}
```

Creates a realistic card-opening effect.

Step 7.5: Style Card

```
.card
{
    width:350px;
    height:250px;
}
```

Defines the card dimensions.

Step 7.6: Style Cover Page

```
.cover
{
    background:
    linear-gradient(
    135deg,
    #ff4d6d,
    #ff758f
    );
}
```

The logo for innovbit AI Lab, featuring the word "innovbit" in blue, "AI" in red, and "Lab" in blue, with a small pink triangle to the left of "innovbit".

Creates the birthday card cover.

Features:

- Rounded corners
- Shadow effect
- Large text
- Smooth animation

Step 7.7: Add Birthday Icon

```
.cover::before
{
    content:"🎂";
}
```



```
}
```

Displays a birthday cake emoji on the cover.

Step 7.8: Style Inside Section

```
.inside
{
    background:white;
    padding:25px;
}
```

Creates the card's inner message area.

Step 7.9: Opening Animation

```
.open .cover
{
    transform: rotateY(-160deg);
}
```

When the card opens:

- Cover rotates
- Creates realistic flip-card effect

Step 7.10: Add Floating Animation

```
@keyframes float
```

Creates a smooth floating animation effect.

Step 7.11: Style Button

```
button
{
```

```
background:#ff4d6d;  
}
```

Creates a modern close button.

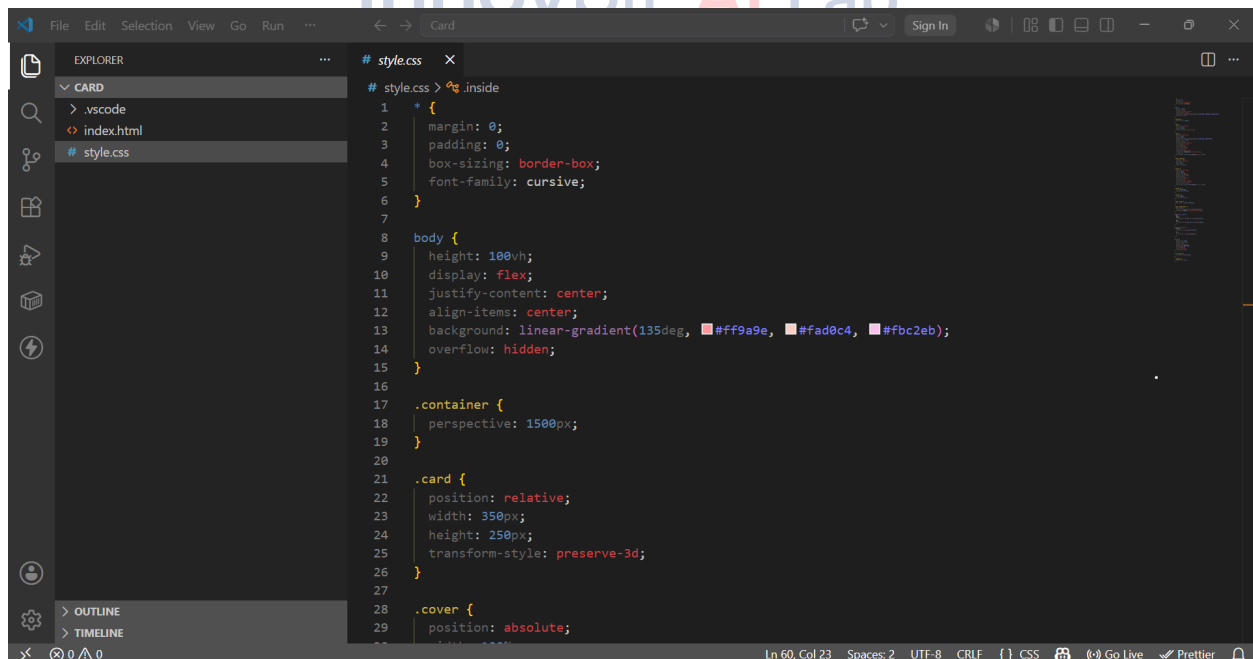
Hover effects include:

- Scaling effect
- Smooth transitions

Step 7.12: Style Signature

```
.signature  
{  
    margin-top:25px;  
}
```

Adds spacing between the message and signature.



8. Run the Application

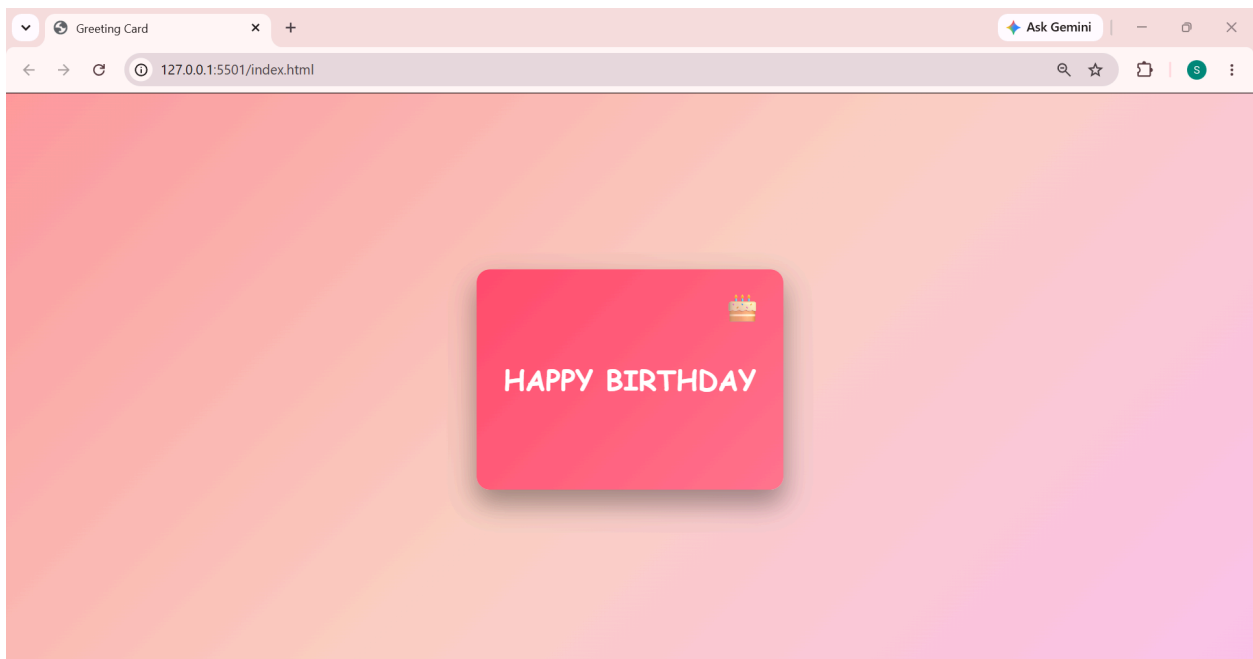
Simply open:

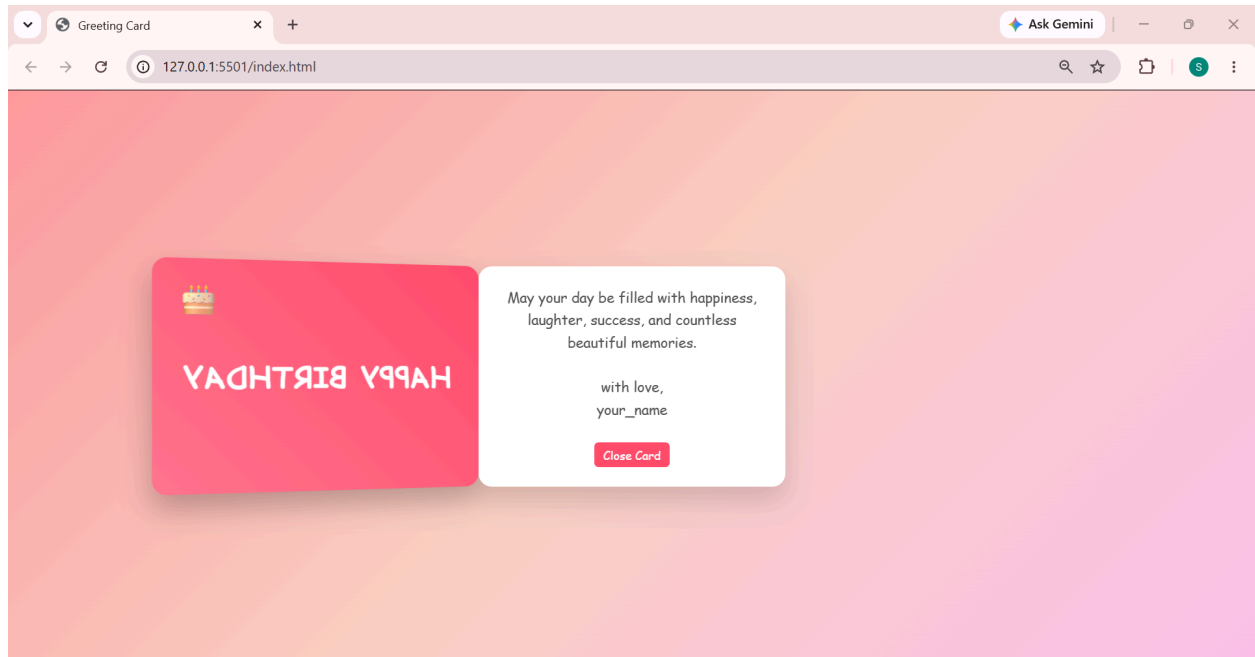
`index.html` in any modern web browser.

Examples:

- Google Chrome
- Microsoft Edge
- Firefox
- Safari

No server is required.





9. How Everything Works Together (Flow)

- User opens index.html
- Greeting card appears on screen
- User clicks "HAPPY BIRTHDAY"
- JavaScript adds the "open" class
- CSS rotates the cover
- Greeting message becomes visible
- User reads the message
- User clicks "Close Card"
- JavaScript removes the "open" class
- Card returns to original state

10. Common Mistakes

- Forgetting to link style.css
- Typing incorrect class names
- Missing JavaScript functions

- Incorrect file names
- Not saving files before testing
- Opening the wrong HTML file

11. Tips & Tricks

11.1 Personalize the Message

Replace:

`your_name`

with your actual name.

11.2 Add Images

You can place:

``

inside the card.

11.3 Add Music

You can include:

`<audio controls>`

for birthday songs.

11.4 Add More Animations

Possible enhancements:

- Confetti effects
- Sparkles

- Balloons
- Fireworks

11.5 Create Different Greeting Cards

You can easily convert it into:

- Anniversary Card
- Mother's Day Card
- Father's Day Card
- Friendship Day Card
- Valentine's Day Card
- New Year Card

by changing the text and colors.

12. Final Summary



This project teaches:

- HTML page structure
- CSS styling
- CSS transitions and animations
- 3D transform effects
- JavaScript DOM manipulation
- Event handling using `onclick`
- Interactive UI design

It is an excellent beginner project for learning how HTML, CSS, and JavaScript work together to create beautiful and interactive web applications.