Established – 1961 Subject: WEB DESIGNING

SEVA SADAN'S

R. K. TALREJA COLLEGE

OF

ARTS, SCIENCE & COMMERCE

ULHASNAGAR – 421 003

CERTIFICATE

This is to certify that Mr./Ms. Shreya Anil Gadge of F.Y. Information Technology (FYIT) Roll No. 2541009 has satisfactorily completed the Web Designing Mini Project entitled Portfolio with JSON-Based Education Timeline.
during the academic year 2025 – 2026, as a part of the practical requirement. The project work is found to be satisfactory and is approved for submission.

PROF. INCHARGE **HEAD OF DEPT**

SAHIL SHUKLA **PROF. LAXMI JESWANI**

INDEX

INTRODUCTION:

The Personal Portfolio Website is a responsive and interactive web application developed to showcase the skills, projects, and professional profile of an FYIT student.

In this project, the portfolio is built using HTML5, CSS3, and JavaScript. It features a JSON-based dynamic education timeline, a dark/light theme toggle, cursor glow highlight, and clean professional design for modern presentation. The project demonstrates practical implementation of front-end development concepts while providing an effective medium to present skills and technical capabilities professionally.

REQUIREMENT SPECIFICATION:

- Development Tools: Any code editor (Notepad, VS Code, Acode, etc.) and a modern web browser for testing.
- Technologies Used:
  - HTML5: Structure of the website.
  - CSS3: Styling, layout, gradient backgrounds, card designs.
  - JavaScript: Functionality, theme toggle, cursor highlight, JSON data rendering.
- Files: Single HTML file with embedded CSS and JavaScript, or separate CSS/JS files as desired. The main page (e.g., portfolio.html) includes all necessary code for functionality.
- Data Handling: Education timeline items are stored as a JavaScript JSON array and dynamically injected into the page.
- Design Requirements:
  - Responsive layout for desktop and mobile.
  - Easy navigation with fixed top navigation bar and anchor links to sections.
  - Smooth scroll, subtle animations, and readable typography.
  - Professional color theme (pinkish gradient used here) with optional dark/light mode.

SYSTEM DESIGN:

The system follows a **client-side architecture**.
It does not require any database or backend server.
The website runs entirely in the user's web browser.

Technologies Used:

- HTML5
- CSS3
- JavaScript

Modules of the System

1. Navigation Module

- Fixed top navigation
- Anchor link scrolling

2. Hero Module

- Profile image with rotating animation
- Student introduction
- Cursor glow effect

3. About Module

- Personal description

4. Education Timeline Module

- JSON-based data array
- Dynamic card rendering using JavaScript

5. Project Module

- Car Rental System project
- GitHub integration

6. Theme Toggle Module

- Dark and Light mode switch

Design Features

- Gradient pink background
- Smooth hover effects
- Card-based layout
- CSS animations
- Responsive design

SYSTEM IMPLEMENTATION:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Shreya Gadge | Portfolio</title>

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.0/css/all.min.css">
<link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600;700&display=swap" rel="stylesheet">

<style>
:root{
  --bg:#d63384;
  --card:#ad1457;
  --text:#ffffff;
  --accent:#ff6f91;
}

[data-theme="light"]{
  --bg:#ffe6f0;
  --card:#ffffff;
  --text:#000000;
  --accent:#ff4d88;
}

body{
  margin:0;
  font-family:'Poppins',sans-serif;
```

```
  background:linear-gradient(135deg,#d63384,#ad1457);
  color:var(--text);
  scroll-behavior:smooth;
  transition:0.4s;
  overflow-x:hidden;
}

/* Cursor Glow */
.cursor-glow{
  position:fixed;
  width:250px;
  height:250px;
  background:radial-gradient(circle, rgba(255,111,145,0.35)
0%, transparent 70%);
  border-radius:50%;
  pointer-events:none;
  transform:translate(-50%, -50%);
  z-index:0;
}

/* Navbar */
nav{
  position:fixed;
  top:0;
  width:100%;
  display:flex;
  justify-content:center;
  align-items:center;
  gap:25px;
  padding:15px 0;
  background:rgba(0,0,0,0.3);
  backdrop-filter:blur(8px);
  z-index:1000;
}

nav a{
```

```
  text-decoration:none;
  color:var(--text);
  font-weight:500;
  transition:0.3s;
}

nav a:hover{
  color:var(--accent);
}

.nav-icons{
  margin-left:20px;
}

.nav-icons a{
  margin-left:10px;
  font-size:18px;
}

/* Hero */
.hero{
  height:100vh;
  display:flex;
  flex-direction:column;
  justify-content:center;
  align-items:center;
  text-align:center;
  position:relative;
  z-index:1;
}

.profile-wrapper{
  position:relative;
  width:200px;
  height:200px;
  display:flex;
```

```
  justify-content:center;
  align-items:center;
}

.profile-wrapper::before{
  content:"";
  position:absolute;
  width:200px;
  height:200px;
  border-radius:50%;
  border:3px solid var(--accent);
  animation:rotate 10s linear infinite;
}

.hero img{
  width:170px;
  height:170px;
  border-radius:50%;
  object-fit:cover;
  z-index:1;
}

.hero h1{
  margin-top:20px;
  font-size:2.4rem;
}

.hero p{
  opacity:0.9;
}

/* Sections */
section{
  padding:80px 10%;
  position:relative;
  z-index:1;
```

```
}

.section-title{
  font-size:1.8rem;
  margin-bottom:25px;
  border-left:4px solid var(--accent);
  padding-left:10px;
}

.card{
  background:var(--card);
  padding:20px;
  border-radius:8px;
  margin-bottom:20px;
  transition:0.3s;
}

.card:hover{
  transform:translateY(-5px);
  box-shadow:0 10px 25px rgba(0,0,0,0.3);
}

.btn{
  display:inline-block;
  margin-top:15px;
  padding:10px 20px;
  background:var(--accent);
  color:white;
  text-decoration:none;
  border-radius:5px;
  transition:0.3s;
}

.btn:hover{
  opacity:0.8;
}
```

```
/* Toggle */
.toggle-btn{
  position:fixed;
  bottom:20px;
  right:20px;
  width:45px;
  height:45px;
  border-radius:50%;
  border:none;
  background:var(--accent);
  color:white;
  cursor:pointer;
  z-index:1000;
}

/* Animation */
@keyframes rotate{
  from{transform:rotate(0deg);}
  to{transform:rotate(360deg);}
}
</style>
</head>

<body>

<div class="cursor-glow" id="glow"></div>

<nav>
  <a href="#home">Home</a>
  <a href="#about">About</a>
  <a href="#education">Education</a>
  <a href="#projects">Projects</a>

  <div class="nav-icons">
    <a href="https://github.com/shreya2007-shraddha"
```

```
target="_blank"><i class="fab fa-github"></i></a>
    <a href="https://instagram.com/uurs_shreyuu__"
target="_blank"><i class="fab fa-instagram"></i></a>
    <a href="mailto:shreyagadge093@gmail.com"><i class="fa-
solid fa-envelope"></i></a>
  </div>
</nav>

<div class="hero" id="home">
  <div class="profile-wrapper">
    <img src="image/profile.jpeg" alt="Profile">
  </div>
  <h1>Shreya Gadge</h1>
  <p>FY BSc IT Student | Web Developer | C++
Enthusiast</p>
</div>

<section id="about">
  <h2 class="section-title">About Me</h2>
  <div class="card">
    Passionate IT student skilled in C++, OOPS and Web
Development.
  </div>
</section>

<section id="education">
  <h2 class="section-title">Education Timeline</h2>
  <div id="timeline"></div>
</section>

<section id="projects">
  <h2 class="section-title">Projects</h2>
  <div class="card">
    <h3>Car Rental System</h3>
    <p>
      Console-based application developed using C++ with
```

```
OOPS and File Handling.
      Manages vehicle booking, customer details and billing.
    </p>
    <a href="https://github.com/shreya2007-shraddha/Car-
Rental-System"
       target="_blank"
       class="btn">
       View Project
    </a>
  </div>
</section>

<button class="toggle-btn" onclick="toggleTheme()">
  <i class="fas fa-moon" id="icon"></i>
</button>

<script>
/* Cursor Glow */
const glow=document.getElementById("glow");
document.addEventListener("mousemove",(e)=>{
  glow.style.left=e.clientX+"px";
  glow.style.top=e.clientY+"px";
});

/* Dark Light Toggle */
function toggleTheme(){
  const body=document.body;
  const icon=document.getElementById("icon");

  if(body.getAttribute("data-theme")==="light"){
    body.removeAttribute("data-theme");
    icon.className="fas fa-moon";
  }else{
    body.setAttribute("data-theme","light");
    icon.className="fas fa-sun";
  }
```

```
}

/* JSON Education */
const educationData=[
{degree:"FY BSc IT", institute:"R.K.Telereja College",
year:"2026 - Present"},
{degree:"HSC", institute:"K.V.Pendarkar College", year:"2023
- 2025"},
{degree:"SSC", institute:"Vikas Mandir School", year:"2022 -
2023"}
];

const timeline=document.getElementById("timeline");

educationData.forEach(item=>{
  timeline.innerHTML+=`
  <div class="card">
    <h3>${item.degree}</h3>
    <p>${item.institute} | ${item.year}</p>
  </div>`;
});
</script>

</body>
</html>
```

SYSTEM TESTING AND RESULT:

Testing Performed

- Verified navigation links
- Checked JSON data rendering
- Tested dark/light toggle
- Tested cursor highlight animation
- Verified GitHub link opens correctly
- Tested on Chrome and Edge
- Checked mobile responsiveness

Result

The project runs successfully without errors and dynamically displays the education timeline using JSON.

Hosted Version:

https://shreya2007-shraddha.github.io/shreya-portfolio/

FUTURE SCOPE AND CONCLUSION;

Future Scope

- Add certifications section
- Add skills progress bars
- Add contact form with validation
- Connect to backend database
- Add admin panel for updates
- Deploy with custom domain

Conclusion

The Portfolio with JSON-Based Education Timeline successfully demonstrates dynamic web development using HTML, CSS, and JavaScript. The project effectively integrates modern UI features and dynamic content generation. It fulfills the objective of creating a professional academic portfolio website.

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REFERENCE:

1. **Acode Editor (Android Code Editor)**
   Acode Editor was used for writing, editing, and managing the HTML, CSS, and JavaScript code during development.

2. **Google Chrome Browser**
   Google Chrome was used for testing, debugging, and inspecting elements using Developer Tools.

3. **GitHub**
   GitHub was used to upload and manage the Car Rental System project repository and integrate it with the portfolio website.
   Website: https://github.com

GLOSSARY:

HTML (HyperText Markup Language) – The standard markup language used to create the structure of web pages.

CSS (Cascading Style Sheets) – A stylesheet language used to design and control the layout, colors, fonts, and responsiveness of the website.

JavaScript – A scripting language used to add interactivity and dynamic behavior to the website.

jQuery – A JavaScript library that simplifies DOM manipulation, animations, and event handling.

DOM (Document Object Model) – A programming interface that represents the structure of an HTML document as objects.

Responsive Design – A design approach that ensures the website adapts properly to different screen sizes (mobile, tablet, desktop).

Media Query – A CSS technique used to apply different styles based on screen size or device characteristics.

Intersection Observer API – A web API used to detect when an element becomes visible on the screen, used here for fade-in animations.

Animation – Visual effects that create movement or transitions (e.g., floating image, rotating border, background animation).

Keyframes – CSS rule used to define stages of an animation.

Smooth Scrolling – A scrolling effect that moves gradually between sections instead of jumping instantly.

Grid Layout – A CSS layout system used to create responsive card-based project and contact sections.

Glassmorphism – A UI design style using transparency and blur effects for a modern appearance.

Viewport – The visible area of a web page on a device screen.

Anchor Link – A clickable link that navigates to a specific section of the same page.

Hover Effect – A visual effect triggered when the user places the mouse pointer over an element.

Function – A block of reusable JavaScript code designed to perform a specific task.

Event Listener – A method that waits for user interaction such as clicks or scrolling.

User Interface (UI) – The visual layout and interactive elements of the website.

User Experience (UX) – The overall experience and ease of use for visitors interacting with the website