Front-End UI/UX Mini Project

Project 1: CUSTOMER FEEDBACK FORM

- **Submitted By:**

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- **Course: Ui/Ux Design Fundamentals**

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- **Instution: Lamrin Tech Skill University**

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Project 1:

Abstract

This project focuses on the design and development of a responsive Customer Feedback Form using HTML, CSS, JavaScript, and Bootstrap. The main objective of the system is to collect customer opinions in a simple and effective manner to help organizations improve their products and services. The form includes a star-based rating system that allows users to easily rate their experience, along with a text area for providing detailed feedback. JavaScript is used to display the selected rating dynamically and to validate the form before submission, ensuring accurate and complete input. Bootstrap is applied to make the interface responsive and compatible with different devices such as desktops, tablets, and mobile phones. Overall, this project demonstrates the practical implementation of front-end web technologies to create a user-friendly and professional feedback collection system.

OBJECTIVES OF THE PROJECT

➢ To design and develop a user-friendly Customer Feedback Form using modern web technologies.

➢ To implement a star-based rating system that allows users to easily rate their experience.

➢ To provide a text-based feedback section for collecting detailed customer opinions and suggestions.

➢ To apply JavaScript for real-time rating display and form validation before submission.

➢ To ensure the feedback form is fully responsive across different devices using Bootstrap.

➢ To improve user interaction and overall usability through a clean and professional interface.

SCOPE OF THE PROJECT

➢ The project focuses on front-end development using HTML, CSS, JavaScript, and Bootstrap.

➢ It supports customer feedback collection through ratings and comments in a structured format.

➢ The system can be used by small businesses, educational institutions, and servicebased organizations.

➢ The design is scalable and can be extended to store feedback data using backend technologies.

➢ Future enhancements may include database integration, admin dashboards, and analytics for feedback analysis.

➢ The project serves as a foundation for learning responsive design and interactive web form development.

Tools/Technology Used

Feature	Description
User-Friendly Interface	Simple and clean form layout that allows users to submit feedback easily
Star Rating System	Interactive star-based rating system for quick and intuitive feedback
Dynamic Rating Display	Displays the selected rating value (e.g., 4 / 5) in real time
Detailed Feedback Section	Text area provided for users to enter detailed comments or suggestions
Form Validation	Ensures all required fields are filled before form submission
Responsive Design	Fully responsive layout using Bootstrap for all screen sizes
Instant Submission Confirmation	Popup message shown after successful feedback submission
Console Data Logging	User-entered data is logged in the browser console for verification
Clean and Structured Code	Well-organized HTML, CSS, and JavaScript for easy understanding
Scalable Design	Can be extended with backend and database integration in the future

HTML Tags Utilized

- **<!DOCTYPE html>** – Used at the top to declare the document as HTML5
- **<html lang="en">** – Defines the language of the webpage as English
- **<head>** – Contains metadata, title, and external resource links
- **<meta charset="UTF-8">** – Ensures proper display of all character types
- **<meta name="viewport">** – Enables responsive layout on all devices
- **<title>** – Sets the title of the webpage shown in the browser tab
- **<link>** – Used to include Bootstrap CSS and custom stylesheet
- **<body>** – Contains all visible content of the webpage
- **<div class="container">** – Centers the feedback form and maintains layout
- **<div class="feedback-card">** – Groups all feedback form elements
- **<h3>** – Displays the heading of the feedback form
- **<p>** – Provides a short description or instruction text
- **<form>** – Collects user feedback data
- **<label>** – Describes the purpose of each input field
- **<input type="text">** – Used to enter the user's name
- **<input type="email">** – Used to enter the user's email address
- **<input type="radio">** – Used for selecting star rating values
- **<div class="star-rating">** – Displays the star-based rating system
- **<label> ★ </label>** – Represents individual star icons for rating
- **<span>** – Displays the selected rating value dynamically
- **<textarea>** – Used to enter detailed feedback comments
- **<button>** – Submits the feedback form
- **<script>** – Links JavaScript for validation, rating logic, and form handling

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CSS Structure Overview

- **body** – Used to define overall background color and font style of the webpage
- **.feedback-card** – Used to style the feedback form container with padding and shadow
- **.container** – Used to align and center the form content properly
- **.rating-wrapper** – Used to align star rating and rating text in a single row
- **.star-rating** – Used to display star icons in horizontal alignment
- **.star-rating input** – Used to hide radio buttons from the user interface
- **.star-rating label** – Used to style star icons including size and color
- **.star-rating label:hover** – Used to highlight stars when the user hovers over them
- **.star-rating input:checked ~ label** – Used to highlight selected stars
- **.rating-text** – Used to style the selected rating display text
- **.btn** – Used to style the submit button
- **@media queries** – Used to make the design responsive on different screen sizes

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JavaScript Structure Overview

- **document.getElementById()** – Used to access form and input elements
- **document.querySelectorAll()** – Used to select all star rating radio buttons
- **addEventListener("change")** – Used to detect star rating selection
- **addEventListener("submit")** – Used to handle form submission
- **event.preventDefault()** – Used to prevent default form submission behavior
- **value** – Used to retrieve user-entered input values
- **checked** – Used to check which rating star is selected
- **textContent** – Used to display selected rating dynamically
- **alert()** – Used to show a popup message after successful submission
- **console.log()** – Used to display submitted feedback data in Inspect mode
- **form.reset()** – Used to clear all form fields after submission

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Key Features

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User-Friendly Interface	Simple and clean form layout that allows users to submit feedback easily
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Scalable Design	Can be extended with backend and database integration in the future

Challenges Faced During the Project

Challenge	Description
Implementing Star Rating Logic	Ensuring that the correct number of stars are highlighted based on user selection was challenging due to CSS selector behavior
Alignment Issues with Flexbox	Using Flexbox caused unexpected shifting of stars, requiring careful control of HTML order and CSS properties
Form Validation	Validating all input fields, especially the rating selection, before form submission required additional JavaScript logic
Responsive Design	Adjusting the layout to work smoothly on mobile, tablet, and desktop screens needed proper use of Bootstrap classes
Debugging and Testing	Identifying errors and verifying form data using the browser inspect and console tools was time-consuming

Project Outcomes

Outcome	Description
Working Feedback Form	Successfully developed a functional customer feedback form
Star Rating Feature	Users can select and view ratings easily
Responsive Design	Form adapts well to all screen sizes
Submission Confirmation	Popup message confirms successful submission
Console Data Display	User input data is visible in the browser console

Future Enhancements

- **Backend Integration** – Store feedback data securely in a database using backend technologies like PHP, Node.js, or Firebase.
- **Admin Dashboard** – Create an admin panel to view, filter, and analyze customer feedback and ratings.
    - **Analytics & Reports** – Add charts and graphs to analyze customer satisfaction trends over time.

SOURCE CODE

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Customer Feedback Form</title>
<meta name="viewport" content="width=device-width, initial-scale=1">

<!-- Bootstrap CSS -->
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet">

<!-- Custom CSS -->
<link rel="stylesheet" href="form.css">
</head>
<body>

<div class="container d-flex justify-content-center align-items-center min-vh-100"> <div
class="feedback-card">

<h3 class="text-center mb-2">Customer Feedback</h3>
<p class="text-center text-muted mb-4">
We appreciate your time and valuable feedback.
</p>

<form id="feedbackForm">

<div class="mb-3">
<label class="form-label">Name</label>
<input type="text" id="name" class="form-control" required>
</div>

<div class="mb-3">
<label class="form-label">Email</label>
<input type="email" id="email" class="form-control" required>
</div>

<!-- Rating -->
<div class="mb-3">
<label class="form-label">Rating</label>
```

```html
<div class="rating-wrapper">
<div class="star-rating">

<input type="radio" id="star5" name="rating" value="5">
<label for="star5">★</label>
<input type="radio" id="star4" name="rating" value="4">
<label for="star4">★</label>

<input type="radio" id="star3" name="rating" value="3">
<label for="star3">★</label>

<input type="radio" id="star2" name="rating" value="2">
<label for="star2">★</label>

<input type="radio" id="star1" name="rating" value="1">
<label for="star1">★</label>

</div>
</div>

<span id="ratingValue">Rating: 0 / 5</span>
</div>

<div class="mb-4">
<label class="form-label">Comments</label>
<textarea id="comments" class="form-control" rows="4" required></textarea>
</div>

<button type="submit" class="btn btn-primary w-100"> Submit Feedback
</button>   </form>

</form>
</div>
</div>

<script src="form.js"></script>

</body>
</html>
```

CSS CODE

```css
body {
background-color: #f5f7fa;  font-family:
"Segoe UI", Tahoma, sans-serif;
}

.feedback-card { background: #ffffff;
padding: 30px; max-width: 420px;  width:
100%;  border-radius: 8px;  box-shadow: 0
10px 25px rgba(0, 0, 0, 0.1);
}

/* Rating layout */   .rating-
wrapper { display: flex; align-
items: center;  gap:
12px;
}

/* Stars aligned left */  .star-rating
{        display: flex;
flex-direction: row-reverse;

}
.star-rating input {   display:
none;
}

.star-rating label { font-size: 28px;
color: #dcdcdc;   cursor: pointer;
transition: color 0.2s ease;
}

.star-rating input:checked ~ label,  .star-rating
label:hover, .star-rating label:hover ~ label {
color:
#ffc107;
}

/* Rating text */ .rating-text
{
font-size: 14px; color: #555;
}
```

JAVA SCRIPT

```javascript
const form = document.getElementById("feedbackForm");  const
ratingText = document.getElementById("ratingValue"); const ratingStars
= document.querySelectorAll('input[name="rating"]');


ratingStars.forEach(star => { star.addEventListener("change", function () {
ratingText.textContent = "Rating: " + this.value + " / 5";
});
});


form.addEventListener("submit", function (event) { event.preventDefault();


const name = document.getElementById("name").value;  const
email = document.getElementById("email").value; const
comments = document.getElementById("comments").value;

let selectedRating = "";  ratingStars.forEach(star
=> { if (star.checked) {
selectedRating = star.value;
}
});

if (selectedRating === "") {
alert("Please select a rating before submitting."); return;
}
alert("Feedback submitted successfully!");

console.log("---- Customer Feedback Data     ");  console.log("Name:", name);
console.log("Email:", email);  console.log("Rating:",        selectedRating);
console.log("Comments:", comments);
console.log("----------------------------------------------------------------------- "); });

form.reset();
ratingText.textContent = "Rating: 0 / 5";
```

Screenshots of Final Outcome

Customer Feedback

We appreciate your time and valuable feedback.

Name

Jaskaran Singh

Email

24100110051.uset@ltsu.ac.in

Rating

★ ★ ★ ★ ☆

Rating: 4 / 5

Comments

Good service

Submit Feedback

127.0.0.1:5500 says

Feedback submitted successfully!

OK

Name

Jaskaran Singh

Email

24100110051.uset@ltsu.ac.in

Rating

★★★★☆

Rating: 4 / 5

Comments

Good service

Submit Feedback

Customer Feedback

We appreciate your time and valuable feedback.

Name

Email
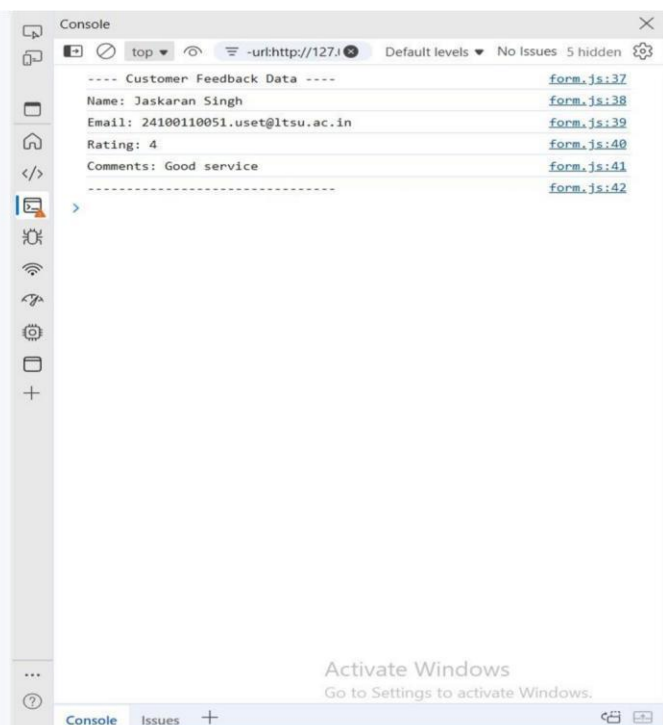
Rating

★★★★★

Rating: 0 / 5

Comments

Submit Feedback

Console ×

top ▼ ⊘ = -url:http://127.◉ Default levels ▼ No Issues 5 hidden

```
---- Customer Feedback Data ----          form.js:37
Name: Jaskaran Singh                      form.js:38
Email: 24100110051.uset@ltsu.ac.in        form.js:39
Rating: 4                                 form.js:40
Comments: Good service                    form.js:41
--------------------------------          form.js:42
```

Activate Windows
Go to Settings to activate Windows.

Console   Issues   +

Conclusion

The Customer Feedback Form project successfully demonstrates the practical use of HTML, CSS, JavaScript, and Bootstrap to build a responsive and interactive web application. The system allows users to provide ratings and detailed feedback in an easy and user-friendly manner. Features such as realtime rating display, form validation, and submission confirmation enhance the overall user experience. This project not only fulfills its objective of collecting customer feedback effectively but also helps in understanding core front-end development concepts. Overall, it serves as a strong foundation for building more advanced feedback and data-driven web applications in the future

References

L&T LMS: https://learn.Intedutect.com/Landing/MyCourse