

## **Problem Statement – StudentManagement (Day2 Week 4)**

### **Sprint 2**

#### **User Stories :-**

1. As a student. I should be able to see login and Register page as a first page
2. As a student. I should be able to enter my user name and password and click on the login button
3. As a student. I should be able to see the Welcome page only if the student is valid.
4. As a student. I should be able to see the Monthly Activity Page after clicking the Monthly Chart button.
5. As a Student. I should be able to see the subject wise monthly activities on the Monthly activities page. Subject should be selected from the drop box

#### **Index.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Spring Flowers School - Student Management</title>

    <!-- Bootstrap CSS -->
    <link
        href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap/5.3.2/css/bootstrap.min.css"
        rel="stylesheet">

    <!-- Custom CSS -->
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <!-- Header with Logo and Menu (Hidden initially) -->
    <header id="header">
        <div class="header-content">
            <!-- School Logo -->
            <div class="logo">
                <div class="logo-icon">✿</div>
                <div class="school-name">Spring Flowers School</div>
            </div>

            <!-- Menu Bar -->
            <nav class="menu">
                <button onclick="showHome()">Home</button>
                <button onclick="showProfile()">Student Profile</button>
```

```
        <button onclick="showActivities()">Monthly Chart</button>
        <button class="logout-btn" onclick="logout()">Logout</button>
    </nav>
</div>
</header>

<!-- Main Content -->
<main>
    <!-- Login/Register Section -->
    <section id="auth" class="auth-section">
        <h2>Spring Flowers School</h2>

        <div class="auth-tabs">
            <button id="loginTab" class="active"
onclick="showLoginForm()">Login</button>
            <button id="registerTab"
onclick="showRegisterForm()">Register</button>
        </div>

        <!-- Login Form -->
        <div id="loginForm">
            <div class="form-group">
                <label for="loginUsername">Username</label>
                <input type="text" id="loginUsername" placeholder="Enter
your username">
            </div>
            <div class="form-group">
                <label for="loginPassword">Password</label>
                <input type="password" id="loginPassword"
placeholder="Enter your password">
            </div>
            <button class="btn-submit"
onclick="handleLogin()">Login</button>
            <div id="loginError" class="error-message"></div>
        </div>

        <!-- Register Form -->
        <div id="registerForm" style="display: none;">
            <div class="form-group">
                <label for="registerUsername">Username</label>
                <input type="text" id="registerUsername"
placeholder="Choose a username">
            </div>
            <div class="form-group">
                <label for="registerPassword">Password</label>
                <input type="password" id="registerPassword"
placeholder="Choose a password">
            </div>
        </div>
    </section>
</main>
```

```
<div class="form-group">
    <label for="registerConfirmPassword">Confirm
    Password</label>
    <input type="password" id="registerConfirmPassword"
placeholder="Confirm your password">
</div>
<button class="btn-submit"
onclick="handleRegister()">Register</button>
    <div id="registerError" class="error-message"></div>
    <div id="registerSuccess" class="success-message"></div>
</div>
</section>

<!-- Welcome Page -->
<section id="welcome" class="welcome-section">
    <div class="welcome-user" id="welcomeUser"></div>
    <h1>Welcome to Spring Flowers School</h1>
    <p>Your journey to excellence starts here!</p>
    <p>We are committed to providing quality education and nurturing
young minds.</p>
</section>

<!-- Student Profile Page -->
<section id="profile" class="profile-section">
    <h2>Student Profile</h2>

    <div class="profile-card">
        <div class="profile-picture" id="profileInitials">RS</div>

        <div class="profile-details">
            <table>
                <tr>
                    <td>Full Name:</td>
                    <td id="profileName">Raj Singh</td>
                </tr>
                <tr>
                    <td>Student ID:</td>
                    <td>SF-2024-001</td>
                </tr>
                <tr>
                    <td>Class:</td>
                    <td>12th Grade - Section A</td>
                </tr>
                <tr>
                    <td>Date of Birth:</td>
                    <td>April 17, 2010</td>
                </tr>
                <tr>
```

```

        <td>Email:</td>
        <td>
id="profileEmail">raj.singh@springflowers.edu</td>
        </tr>
        <tr>
            <td>Phone:</td>
            <td>+91 52648-97635</td>
        </tr>
        <tr>
            <td>Address:</td>
            <td>123 Main Street, Springfield, Chandigarh</td>
        </tr>
        <tr>
            <td>Parent/Guardian:</td>
            <td>Sartaj Singh</td>
        </tr>
    </table>
</div>
</div>
</section>

<!-- Monthly Activities Section --&gt;
&lt;section id="activities" class="activities-section"&gt;
    &lt;h2&gt;Monthly Activities Chart&lt;/h2&gt;

    &lt;div class="subject-selector"&gt;
        &lt;label for="subjectSelect"&gt;Select Subject:&lt;/label&gt;
        &lt;select id="subjectSelect" onchange="filterActivities()"&gt;
            &lt;option value="all"&gt;All Subjects&lt;/option&gt;
            &lt;option value="Maths"&gt;Maths&lt;/option&gt;
            &lt;option value="English"&gt;English&lt;/option&gt;
            &lt;option value="Science"&gt;Science&lt;/option&gt;
            &lt;option value="History"&gt;History&lt;/option&gt;
            &lt;option value="Computer"&gt;Computer&lt;/option&gt;
        &lt;/select&gt;
    &lt;/div&gt;

    &lt;div class="activities-list" id="activitiesList"&gt;
        &lt;!-- Activities will be dynamically loaded here --&gt;
    &lt;/div&gt;
&lt;/section&gt;
&lt;/main&gt;

<!-- Footer --&gt;
&lt;footer&gt;
    &lt;p&gt;&amp;copy; 2025 Spring Flowers School. All Rights Reserved.&lt;/p&gt;
&lt;/footer&gt;
</pre>

```

```
<!-- Bootstrap JS -->
<script
src="https://cdnjs.cloudflare.com/ajax/libs/bootstrap/5.3.2/js/bootstrap.bundle.min.js"></script>

<!-- Custom JavaScript -->
<script src="script.js"></script>
</body>
</html>
```

## styles.css

```
/* Reset basic styles */
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}

body {
    font-family: Arial, sans-serif;
    background-color: #f5f5f5;
}

/* Header with logo and menu - Using Flexbox */
header {
    background-color: #646467;
    color: white;
    padding: 20px;
    box-shadow: 0 2px 5px rgba(0,0,0,0.1);
    display: none;
}

header.show {
    display: block;
}

.header-content {
    max-width: 1200px;
    margin: 0 auto;
    display: flex;
    justify-content: space-between;
    align-items: center;
    flex-wrap: wrap;
    gap: 20px;
}
```

```
/* School Logo - Flexbox */
.logo {
    display: flex;
    align-items: center;
    gap: 15px;
}

.logo-icon {
    width: 60px;
    height: 60px;
    background-color: white;
    border-radius: 50%;
    display: flex;
    align-items: center;
    justify-content: center;
    font-size: 30px;
}

.school-name {
    font-size: 24px;
    font-weight: bold;
}

/* Menu Bar - Flexbox for responsive layout */
.menu {
    display: flex;
    gap: 10px;
    flex-wrap: wrap;
}

.menu button {
    background-color: white;
    color: #000000;
    border: none;
    padding: 12px 25px;
    font-size: 16px;
    cursor: pointer;
    border-radius: 5px;
    font-weight: bold;
    transition: all 0.3s;
}

.menu button:hover {
    background-color: #000000;
    color: white;
    transform: translateY(-2px);
}
```

```
.menu .logout-btn {
    background-color: #333;
    color: white;
}

.menu .logout-btn:hover {
    background-color: #000000;
}

/* Main Content Area */
main {
    max-width: 1200px;
    margin: 40px auto;
    padding: 20px;
}

/* Login/Register Section */
.auth-section {
    background-color: white;
    padding: 40px;
    border-radius: 10px;
    box-shadow: 0 2px 10px rgba(0,0,0,0.1);
    max-width: 500px;
    margin: 80px auto;
}

.auth-section h2 {
    color: #333;
    margin-bottom: 30px;
    text-align: center;
    font-size: 32px;
    border-bottom: 3px solid #646467;
    padding-bottom: 10px;
}

.auth-tabs {
    display: flex;
    gap: 10px;
    margin-bottom: 30px;
}

.auth-tabs button {
    flex: 1;
    padding: 12px;
    border: none;
    background-color: #e0e0e0;
    color: #333;
```

```
    font-size: 16px;
    font-weight: bold;
    cursor: pointer;
    border-radius: 5px;
    transition: all 0.3s;
}

.auth-tabs button.active {
    background-color: #646467;
    color: white;
}

.form-group {
    margin-bottom: 20px;
}

.form-group label {
    display: block;
    margin-bottom: 8px;
    color: #333;
    font-weight: bold;
}

.form-group input {
    width: 100%;
    padding: 12px;
    border: 1px solid #ddd;
    border-radius: 5px;
    font-size: 16px;
}

.form-group input:focus {
    outline: none;
    border-color: #646467;
}

.btn-submit {
    width: 100%;
    padding: 12px;
    background-color: #646467;
    color: white;
    border: none;
    border-radius: 5px;
    font-size: 16px;
    font-weight: bold;
    cursor: pointer;
    transition: all 0.3s;
}
```

```
.btn-submit:hover {
    background-color: #333;
}

.error-message {
    color: #d32f2f;
    font-size: 14px;
    margin-top: 10px;
    display: none;
}

.success-message {
    color: #388e3c;
    font-size: 14px;
    margin-top: 10px;
    display: none;
}

/* Welcome Section */
.welcome-section {
    background-color: white;
    padding: 60px 40px;
    border-radius: 10px;
    text-align: center;
    box-shadow: 0 2px 10px rgba(0,0,0,0.1);
    display: none;
}

.welcome-section.active {
    display: block;
}

.welcome-section h1 {
    color: #000000;
    font-size: 48px;
    margin-bottom: 20px;
}

.welcome-section p {
    color: #000000;
    font-size: 20px;
    line-height: 1.6;
}

.welcome-user {
    color: #646467;
    font-size: 24px;
```

```
    margin-bottom: 20px;
    font-weight: bold;
}

/* Student Profile Section - Flexbox */
.profile-section {
    display: none;
    background-color: white;
    padding: 40px;
    border-radius: 10px;
    box-shadow: 0 2px 10px rgba(0,0,0,0.1);
}

.profile-section.active {
    display: block;
}

.profile-section h2 {
    color: #333;
    margin-bottom: 30px;
    font-size: 32px;
    border-bottom: 3px solid #646467;
    padding-bottom: 10px;
}

.profile-card {
    display: flex;
    gap: 30px;
    align-items: flex-start;
    flex-wrap: wrap;
}

.profile-picture {
    width: 150px;
    height: 150px;
    background-color: #646467;
    border-radius: 50%;
    display: flex;
    align-items: center;
    justify-content: center;
    color: white;
    font-size: 60px;
    font-weight: bold;
}

.profile-details {
    flex: 1;
    min-width: 300px;
```

```
}

.profile-details table {
    width: 100%;
    border-collapse: collapse;
}

.profile-details table tr {
    border-bottom: 1px solid #ddd;
}

.profile-details table td {
    padding: 15px;
    font-size: 16px;
}

.profile-details table td:first-child {
    font-weight: bold;
    color: #333;
    width: 200px;
}

/* Monthly Activities Section */
.activities-section {
    display: none;
    background-color: white;
    padding: 40px;
    border-radius: 10px;
    box-shadow: 0 2px 10px rgba(0,0,0,0.1);
}

.activities-section.active {
    display: block;
}

.activities-section h2 {
    color: #333;
    margin-bottom: 30px;
    font-size: 32px;
    border-bottom: 3px solid #646467;
    padding-bottom: 10px;
}

.subject-selector {
    margin-bottom: 30px;
}

.subject-selector label {
```

```
        display: block;
        margin-bottom: 10px;
        color: #333;
        font-weight: bold;
        font-size: 18px;
    }

.subject-selector select {
    width: 100%;
    max-width: 400px;
    padding: 12px;
    border: 2px solid #646467;
    border-radius: 5px;
    font-size: 16px;
    background-color: white;
    cursor: pointer;
}

.activities-list {
    margin-top: 30px;
}

.activity-card {
    background-color: #f9f9f9;
    border-left: 4px solid #646467;
    padding: 20px;
    margin-bottom: 15px;
    border-radius: 5px;
    box-shadow: 0 2px 5px rgba(0,0,0,0.05);
}

.activity-card .activity-id {
    color: #646467;
    font-weight: bold;
    font-size: 14px;
    margin-bottom: 8px;
}

.activity-card .activity-text {
    color: #333;
    font-size: 16px;
    line-height: 1.6;
}

.activity-card .activity-subject {
    color: #666;
    font-size: 14px;
    margin-top: 10px;
}
```

```
    font-style: italic;
}

.no-activities {
    text-align: center;
    color: #666;
    font-size: 18px;
    padding: 40px;
}

/* Footer */
footer {
    text-align: center;
    padding: 20px;
    background-color: #646467;
    color: white;
    margin-top: 40px;
}

/* Mobile Responsive Styles */
@media (max-width: 768px) {
    .header-content {
        flex-direction: column;
        text-align: center;
    }

    .menu {
        justify-content: center;
    }

    .menu button {
        padding: 10px 15px;
        font-size: 14px;
    }

    .school-name {
        font-size: 20px;
    }

    .welcome-section h1 {
        font-size: 32px;
    }

    .welcome-section p {
        font-size: 16px;
    }

    .welcome-section {
```

```
        padding: 40px 20px;
    }

.profile-section, .activities-section {
    padding: 20px;
}

.profile-section h2, .activities-section h2 {
    font-size: 24px;
}

.profile-card {
    flex-direction: column;
    align-items: center;
    text-align: center;
}

.profile-picture {
    width: 120px;
    height: 120px;
    font-size: 50px;
}

.profile-details table td:first-child {
    width: 120px;
}

main {
    padding: 10px;
    margin: 20px auto;
}

.auth-section {
    padding: 20px;
    margin: 40px auto;
}

}

@media (max-width: 480px) {
    .logo-icon {
        width: 50px;
        height: 50px;
        font-size: 24px;
    }

    .school-name {
        font-size: 18px;
    }
}
```

```

.menu button {
    padding: 8px 12px;
    font-size: 13px;
}

.profile-details table td {
    padding: 10px;
    font-size: 14px;
}
}

```

## Script.js

```

// Monthly Activities Data Array

const monthlyActivities = [
    { id: 1, activity: "Create project file which contains tables between 12 to 19", subject: "Maths" },
    { id: 2, activity: "Write an essay on 'My Summer Vacation' (minimum 500 words)", subject: "English" },
    { id: 3, activity: "Complete the worksheet on Cell Structure and Functions", subject: "Science" },
    { id: 4, activity: "Prepare a presentation on the Indian Independence Movement", subject: "History" },
    { id: 5, activity: "Solve all exercise problems from Chapter 5: Quadratic Equations", subject: "Maths" },
    { id: 6, activity: "Read and summarize Chapter 3: The Lost Child", subject: "English" },
    { id: 7, activity: "Conduct an experiment on Newton's Laws of Motion and submit report", subject: "Science" },
    { id: 8, activity: "Create a timeline of World War II events", subject: "History" },
    { id: 9, activity: "Design a simple calculator using HTML, CSS and JavaScript", subject: "Computer" },
    { id: 10, activity: "Practice programming loops - solve 10 pattern problems", subject: "Computer" },
    { id: 11, activity: "Learn multiplication tables from 20 to 25", subject: "Maths" },
    { id: 12, activity: "Write a book review on any classic novel", subject: "English" }
];

// User database (In real application, this would be on server)
let users = JSON.parse(localStorage.getItem('schoolUsers')) || [];
let currentUser = null;

// Show Login Form
function showLoginForm() {

```

```
document.getElementById('loginTab').classList.add('active');
document.getElementById('registerTab').classList.remove('active');
document.getElementById('loginForm').style.display = 'block';
document.getElementById('registerForm').style.display = 'none';
clearMessages();
}

// Show Register Form
function showRegisterForm() {
    document.getElementById('registerTab').classList.add('active');
    document.getElementById('loginTab').classList.remove('active');
    document.getElementById('registerForm').style.display = 'block';
    document.getElementById('loginForm').style.display = 'none';
    clearMessages();
}

// Clear error/success messages
function clearMessages() {
    document.getElementById('loginError').style.display = 'none';
    document.getElementById('registerError').style.display = 'none';
    document.getElementById('registerSuccess').style.display = 'none';
}

// Handle Registration
function handleRegister() {
    const username = document.getElementById('registerUsername').value.trim();
    const password = document.getElementById('registerPassword').value;
    const confirmPassword =
        document.getElementById('registerConfirmPassword').value;
    const errorDiv = document.getElementById('registerError');
    const successDiv = document.getElementById('registerSuccess');

    errorDiv.style.display = 'none';
    successDiv.style.display = 'none';

    if (!username || !password || !confirmPassword) {
        errorDiv.textContent = 'All fields are required!';
        errorDiv.style.display = 'block';
        return;
    }

    if (password !== confirmPassword) {
        errorDiv.textContent = 'Passwords do not match!';
        errorDiv.style.display = 'block';
        return;
    }

    if (password.length < 6) {
```

```
        errorDiv.textContent = 'Password must be at least 6 characters!';
        errorDiv.style.display = 'block';
        return;
    }

    // Check if user already exists
    if (users.find(u => u.username === username)) {
        errorDiv.textContent = 'Username already exists!';
        errorDiv.style.display = 'block';
        return;
    }

    // Register user
    users.push({ username, password });
    localStorage.setItem('schoolUsers', JSON.stringify(users));

    successDiv.textContent = 'Registration successful! Please login.';
    successDiv.style.display = 'block';

    // Clear form
    document.getElementById('registerUsername').value = '';
    document.getElementById('registerPassword').value = '';
    document.getElementById('registerConfirmPassword').value = '';

    // Switch to login after 2 seconds
    setTimeout(() => {
        showLoginForm();
    }, 2000);
}

// Handle Login
function handleLogin() {
    const username = document.getElementById('loginUsername').value.trim();
    const password = document.getElementById('loginPassword').value;
    const errorDiv = document.getElementById('loginError');

    errorDiv.style.display = 'none';

    if (!username || !password) {
        errorDiv.textContent = 'Please enter username and password!';
        errorDiv.style.display = 'block';
        return;
    }

    // Verify user
    const user = users.find(u => u.username === username && u.password ===
password);
```

```
if (!user) {
    errorDiv.textContent = 'Invalid username or password!';
    errorDiv.style.display = 'block';
    return;
}

// Login successful
currentUser = username;
localStorage.setItem('currentUser', username);
showDashboard();
}

// Show Dashboard after login
function showDashboard() {
    document.getElementById('auth').style.display = 'none';
    document.getElementById('header').classList.add('show');
    document.getElementById('welcomeUser').textContent = `Welcome,
${currentUser}!`;
    showHome();

    // Update profile with user data
    document.getElementById('profileName').textContent = currentUser;
    document.getElementById('profileEmail').textContent =
`${currentUser.toLowerCase()}@springflowers.edu`;
    document.getElementById('profileInitials').textContent =
getInitials(currentUser);
}

// Get initials from name
function getInitials(name) {
    const parts = name.split(' ');
    if (parts.length >= 2) {
        return (parts[0][0] + parts[1][0]).toUpperCase();
    }
    return name.substring(0, 2).toUpperCase();
}

// Show Home
function showHome() {
    document.getElementById('welcome').classList.add('active');
    document.getElementById('profile').classList.remove('active');
    document.getElementById('activities').classList.remove('active');
}

// Show Profile
function showProfile() {
    document.getElementById('welcome').classList.remove('active');
    document.getElementById('profile').classList.add('active');
```

```
document.getElementById('activities').classList.remove('active');
}

// Show Activities
function showActivities() {
    document.getElementById('welcome').classList.remove('active');
    document.getElementById('profile').classList.remove('active');
    document.getElementById('activities').classList.add('active');
    filterActivities();
}

// Filter and display activities
function filterActivities() {
    const selectedSubject = document.getElementById('subjectSelect').value;
    const activitiesList = document.getElementById('activitiesList');

    let filteredActivities = monthlyActivities;

    if (selectedSubject !== 'all') {
        filteredActivities = monthlyActivities.filter(a => a.subject ===
selectedSubject);
    }

    if (filteredActivities.length === 0) {
        activitiesList.innerHTML = '<div class="no-activities">No activities
found for selected subject.</div>';
        return;
    }

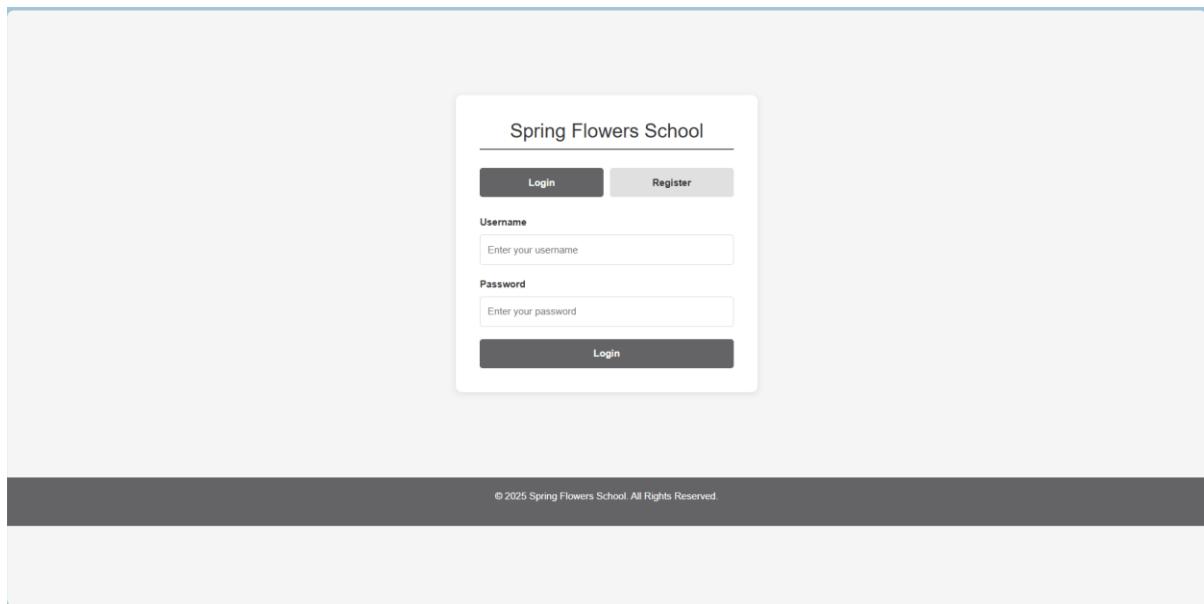
    let html = '';
    filteredActivities.forEach(activity => {
        html += `
            <div class="activity-card">
                <div class="activity-id">Activity #${activity.id}</div>
                <div class="activity-text">${activity.activity}</div>
                <div class="activity-subject">Subject:
${activity.subject}</div>
            </div>
        `;
    });
    activitiesList.innerHTML = html;
}

// Logout
function logout() {
    currentUser = null;
    localStorage.removeItem('currentUser');
```

```
document.getElementById('header').classList.remove('show');
document.getElementById('welcome').classList.remove('active');
document.getElementById('profile').classList.remove('active');
document.getElementById('activities').classList.remove('active');
document.getElementById('auth').style.display = 'block';
document.getElementById('loginUsername').value = '';
document.getElementById('loginPassword').value = '';
showLoginForm();
}

// Check if user is already logged in
window.onload = function() {
    const savedUser = localStorage.getItem('currentUser');
    if (savedUser) {
        currentUser = savedUser;
        showDashboard();
    }
};
```

**Below is the output of the code as mention in Problem Statement**



**Spring Flowers School**

[Login](#)   [Register](#)

**Username**

**Password**

**Confirm Password**

[Register](#)

Registration successful! Please login.

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**Spring Flowers School**

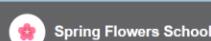
[Login](#)   [Register](#)

**Username**

**Password**  
  ⓘ

[Login](#)

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Spring Flowers School

[Home](#)

[Student Profile](#)

[Monthly Chart](#)

[Logout](#)

Welcome, Rajsingh17!

## Welcome to Spring Flowers School

Your journey to excellence starts here!

We are committed to providing quality education and nurturing young minds.

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### Student Profile



Full Name:	Rajsingh17
Student ID:	SF-2024-001
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Date of Birth:	April 17, 2010
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### Monthly Activities Chart

Select Subject:

Activity #1 Create project file which contains tables between 12 to 19 Subject: Maths
Activity #2 Write an essay on 'My Summer Vacation' (minimum 500 words) Subject: English
Activity #3 Complete the worksheet on Cell Structure and Functions Subject: Science
Activity #4 Prepare a presentation on the Indian Independence Movement Subject: History
Activity #5

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### Monthly Activities Chart

Select Subject:

All Subjects

All Subjects

Maths

English

Science

History

Computer

Activity #2

Write an essay on 'My Summer Vacation' (minimum 500 words)

Subject: English

Activity #3

Complete the worksheet on Cell Structure and Functions

Subject: Science

Activity #4

Prepare a presentation on the Indian Independence Movement

Subject: History

Activity #5

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### Monthly Activities Chart

Select Subject:

English

Activity #2

Write an essay on 'My Summer Vacation' (minimum 500 words)

Subject: English

Activity #6

Read and summarize Chapter 3: The Lost Child

Subject: English

Activity #12

Write a book review on any classic novel

Subject: English