

# HTTP 5310 Capstone – Requirements Document

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## 1. Introduction and Rationale

**Project Name:** AutoFix Scheduler

**Developer:** Sarath Saji

**Purpose:**

AutoFix Scheduler is a WordPress-based platform designed to streamline appointment bookings for automobile workshops. It allows customers to schedule services online and empowers workshop staff to manage workflows efficiently through a secure admin dashboard.

**Rationale:**

- **Eliminate Phone-Based Booking:** Reduces dependency on manual scheduling.
- **Enhance Customer Experience:** Automated confirmations, reminders, and service history tracking.
- **Operational Efficiency:** Organizes workshop schedules and resource allocation.

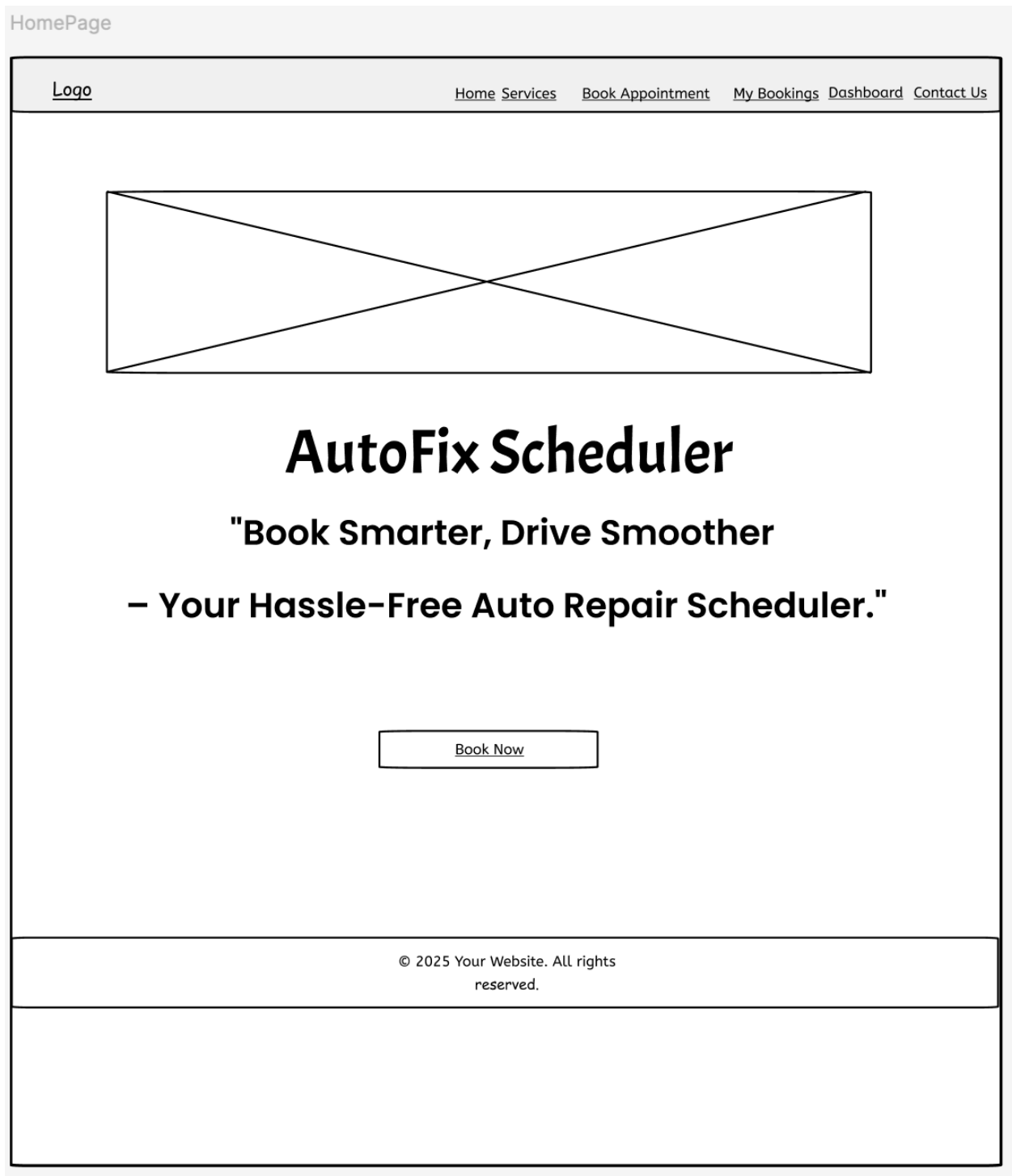
**Goal:**

To build a responsive, accessible, and user-friendly booking system that demonstrates proficiency in WordPress customization, plugin integration, and theme development.

## 2. Content Evaluation

### a. Navigation

- Home
- Services
- Book Appointment
- My Bookings (for Customers)
- Dashboard (for WorkshopAdmin)
- Contact Us

**b. Layout & Wireframe**

<a href="#">Logo</a>	<a href="#">Home</a> <a href="#">Services</a> <a href="#">Book Appointment</a> <a href="#">My Bookings</a> <a href="#">Dashboard</a> <a href="#">Contact Us</a>
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# Services

**"Reliable Repairs, Right on Schedule  
– Explore Our Full Range of Auto Services."**

[Oil Change](#)

[Tire Rotation](#)

[Brake InspInspection](#)

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[Logo](#)[Home](#) [Services](#) [Book Appointment](#) [My Bookings](#) [Dashboard](#) [Contact Us](#)

# Book Appointment

Name

Email

Date

Service

Submit

**"Skip the Wait**

**– Schedule Your Auto Service in Just a Few Clicks."**

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MyBookingsPage

Logo

Home Services Book Appointment My Bookings Dashboard Contact Us

# My Bookings

Date

Service

Status

Date

Service

Status

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# Dashboard

[Statistics](#)[Manage Services](#)[Manage Bookings](#)[Manage Users](#)

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ContactUsPage

[Logo](#)

[Home](#) [Services](#) [Book Appointment](#) [My Bookings Dashboard](#) [Contact Us](#)

# Contact Us

Name

Email

Subject

Send Message

"Skip the Wait  
– Schedule Your Auto Service in Just a Few Clicks."

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### c. Content Sources

- **Text:** Custom-written service descriptions and instructions.
- **Icons:** FontAwesome
- **Images:** Unsplash/Pexels
- **Maps:** Google Maps API
- **Email:** WP Mail SMTP (Gmail integration).

## 3. Functionality (User Stories)

### Client (Customer) User Stories

#### Account Management

- As a Customer, I want to register so I can create an account.
- As a Customer, I want to log in so I can access my account.
- As a Customer, I want to update my profile so I can keep my information up to date.
- As a Customer, I want to update my vehicle details so I can reuse them during bookings.
- As a Customer, I want to recover my password so I can access my account if I forget it.

#### Appointment Booking

- As a Customer, I want to browse available services so I can choose the right one.
- As a Customer, I want to choose an appointment date so I can schedule my visit.
- As a Customer, I want to choose an appointment time so I can visit at my convenience.
- As a Customer, I want to receive confirmation via email so I know the appointment is scheduled.

#### Appointment Management

- As a Customer, I want to view upcoming appointments so I can plan ahead.
- As a Customer, I want to view past appointments so I can track service history.
- As a Customer, I want to reschedule appointments so I can adjust my plans.
- As a Customer, I want to cancel appointments so I can free up my time.
- As a Customer, I want to get automated reminders via email so I don't miss appointments.



## **Workshop Discovery**

- As a Customer, I want to see the workshop location on a map so I can find directions.
- As a Customer, I want to see workshop ratings so I can make informed choices.

## **Feedback and Reviews**

- As a Customer, I want to leave a review so I can share my experience.
- As a Customer, I want to view my submitted feedback so I can confirm it was recorded.

## **WorkshopAdmin (Workshop Manager) User Stories**

### **Account and Role Management**

- As a WorkshopAdmin, I want to log in so I can access the admin dashboard.
- As a WorkshopAdmin, I want to edit the workshop profile so I can update business details.

### **Appointment Management**

- As a WorkshopAdmin, I want to view upcoming appointments.
- As a WorkshopAdmin, I want to update appointment status so I can reflect progress.
- As a WorkshopAdmin, I want to filter appointments by date and name.

### **Service Management**

- As a WorkshopAdmin, I want to add services so I can offer more options.
- As a WorkshopAdmin, I want to edit services so I can keep them current.
- As a WorkshopAdmin, I want to delete services so I can remove outdated ones.
- As a WorkshopAdmin, I want to assign mechanics so I can allocate tasks efficiently.

### **Notifications and Communication**

- As a WorkshopAdmin, I want to receive booking alerts so I stay updated.
- As a WorkshopAdmin, I want to send reminders via email so customers don't miss appointments.

### **Reports and Analytics**

- As a WorkshopAdmin, I want to view simple booking statistics using free dashboard tools or reports.

## Should Have Features

- As a Customer, I want to upload vehicle documents using free file upload plugins.
- As a Mechanic, I want to log in so I can view assigned jobs.

## Nice to Have Features

- As a Customer, I want to use a map so I can locate the workshop easily.

## 4. Technical Specifications

### a. Technology Stack

- **Platform:** WordPress CMS
- **Languages:** PHP, HTML5, CSS3, JavaScript (for UI)
- **Plugins:**
  - Booking Calendar
  - Contact Form 7
  - User Role Editor
  - WP Mail SMTP
- **APIs:** Google Maps API

### b. Hosting

- Development: Local by Flywheel
- Production: Free Hosting (InfinityFree)

## 5. Development Specifications

- **Folder Structure:**
  - `/wp-content/themes/autofix-child`
  - `/wp-content/plugins/custom-functions`
- **File Naming:**
  - kebab-case (`service-manager.php`, `book-appointment.css`)
- **Accessibility:**
  - Use proper alt tags, semantic HTML, ARIA roles
- **Responsiveness:**
  - Mobile-first design with breakpoints for 768px and 1366px
- **Version Control:**
  - GitHub Repo: <https://github.com/sarathsaji/autofix-scheduler>

## 6. Schedule (Sample Weeks)

Week	Task
1	Finalize requirements doc, plugin research
2	Theme setup & CPTs (Services, Mechanics)
3	Booking form & email integration
4	Admin dashboard setup
5	Testing appointments, role permissions
6	Add Should Have features (uploads, mechanic view)
7	Polish UI, add maps, accessibility testing
8	Final testing, documentation, and deployment

## **7. Conclusion**

This capstone project showcases advanced WordPress development skills, including user authentication, booking systems, admin control, and responsive design. By using a CMS as the foundation, the focus will be on customization, integration, and user experience. AutoFix Scheduler aims to be a fully functional, real-world-ready appointment booking system that highlights both development and project planning skills.