Sample Sprint Schedule

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|  | Monday | Tuesday | Wednesday | Thursday | Friday |
| **Sprint 1: Project Initialization & Technical Setup** | Sprint Planning | Daily Standup | Daily Standup | Daily Standup | Sprint Review |
| Sprint Planning + Set Project Goals | Set up GitHub, Parcel (Bundling), and React | User Authentication (Sign Up, Login) | Database Schema (Users, Courses) | Code Review +  Sprint Retrospective |
| Limited manpower made balancing workload difficult. | Managing branches and avoiding conflicts with only three developers was a challenge. | Security and backend integration required constant coordination. | One backend developer had to finalize schema while also working on API implementation. | Limited team members meant fewer review cycles, increasing the risk of undetected issues. |
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| **Sprint 2: UI/UX Development & User Journey** | Sprint Planning | Daily Standup | Daily Standup | Daily Standup | Sprint Review |
| Implement Responsive Landing Page (Modern UI) | Add SEO Basics (Meta Tags, Titles) | Implement User Journey Mapping (Signup to Dashboard) | Design Hero Section with Clear CTA | Sprint Retrospective |
| Managing UI/UX design without a dedicated designer led to additional development time. | Lack of deep SEO expertise among team members made best practices harder to implement. | Defining clear user flows without dedicated user research was challenging. | Achieving a balance between aesthetics and performance without a UI expert. | Identifying and resolving inefficiencies without an external reviewer took extra effort. |
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| **Sprint 3: Backend API Development & Database Integration** | Sprint Planning | Daily Standup | Daily Standup | Daily Standup | Sprint Review |
| Sprint Planning + Design Course CRUD API | Implement Course CRUD (Create, Read) | Complete CRUD (Update, Delete) | Connect APIs to React (Course Listing Page) | Code Review + Sprint Retrospective |
| Aligning API design with frontend needs while managing backend workload. | Handling database transactions efficiently without affecting performance. | Ensuring data consistency across multiple API calls with a limited backend team. | Debugging API integration issues without a dedicated API specialist. | Limited availability of developers led to longer debugging and review cycles. |
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| **Sprint 4: User Engagement & Communication Features** | Sprint Planning | Daily Standup | Daily Standup | Daily Standup | Sprint Review |
| Add Course Reviews & Ratings | Integrate User Progress Tracking | Build Email Notification System (Completion Alerts) | Implement Social Sharing (LinkedIn, Twitter) | Sprint Retrospective |
| Structuring review storage and preventing spam without dedicated moderation tools. | Designing a scalable tracking system with limited time and resources. | Managing email delivery reliability without a dedicated DevOps engineer. | Handling social media API rate limits and integration issues. | Balancing feature prioritization while addressing pending backlog items. |
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| **Sprint 5: Interactive Learning & Real-time Features** | Sprint Planning | Daily Standup | Daily Standup | Daily Standup | Sprint Review |
| Sprint Planning + Build Quiz/Challenge System | Dynamic Quiz Interface (React) | Dashboard: Display User Progress) | Implement Interactive Exercises (Code Examples) | Code Review +  Sprint Retrospective |
| Balancing interactivity with system performance constraints. | Keeping quiz logic flexible for different question types while ensuring smooth frontend performance. | Managing real-time updates with backend efficiency constraints. | Ensuring smooth execution of code snippets while avoiding UI lag. | Reviewing analytics and making meaningful design changes with limited resources. |
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| **Sprint 6: Optimization, Tracking & Accessibility** | Sprint Planning | Daily Standup | Daily Standup | Daily Standup | Sprint Review |
| Integrate Google Analytics for tracking user activity | Add Heatmap Tools (e.g., Hotjar) for UX Analysis | Optimize Page Speed (Lazy Loading, Caching) | Accessibility Testing (WCAG Compliance) | Sprint Retrospective |
| Deriving meaningful insights without a dedicated data analyst. | Ensuring privacy compliance while tracking user behavior. | Managing caching strategies without causing unexpected UI rendering issues. | Identifying and fixing accessibility issues without a dedicated accessibility specialist. | Adjusting workflow based on team feedback while staying on schedule. |
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| **Sprint 7: Security, Testing & Deployment Preparation** | Sprint Planning | Daily Standup | Daily Standup | Daily Standup | Sprint Review |
| Sprint Planning + Admin Panel (Course Control) | Enhance Security (JWT, Input Validation) | System Testing (Manual + Automated) | Set Up CI/CD Pipeline for Deployment | Sprint Review +  Sprint Retrospective |
| Balancing admin controls with overall system usability. | Preventing security vulnerabilities while ensuring smooth user authentication. | Ensuring comprehensive test coverage with limited team bandwidth. | Automating deployment processes without a DevOps specialist. | Prioritization conflicts between technical and business needs. |
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| **Sprint 8: Final Launch, Marketing & Performance Monitoring** | Sprint Planning | Daily Standup | Daily Standup | Daily Standup | Sprint Review |
| Launch Marketing Landing Page (Showcase Features) | Implement SEO Advanced (Schema Markup) | Build Case Studies/Testimonials Section | Plan Marketing Campaign (Social Media, Email) | Final Launch + Performance Monitoring |
| Ensuring conversion optimization while maintaining fast page speed. | Implementing structured data correctly without an SEO specialist. | Collecting and displaying user feedback dynamically. | Timing marketing efforts with product readiness. | Handling traffic spikes and managing server load while ensuring a smooth onboarding experience. |
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