Project Plan and Estimate Breakup

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1. Requirements Gathering and Planning

Activities

- Understand business goals, features, and user roles (customers, event organizers, admin).
- Create high-level requirements and user stories.
- Define tech stack and architecture.

Deliverables

- Requirements Document.
- Wireframes/Mockups
- Project Roadmap

Time Estimate

- 2-3 weeks

Team

- Business Analyst, Product Manager, UI/UX Designer

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Effort

- ~100-120 person-hours

2. Design

Activities

- Design UI/UX for web and mobile platforms.
- Create style guides and reusable components.
- Design backend architecture (database schema, API design).

Deliverables

- UI/UX Mockups
- Database Schema
- System Architecture Diagram

Time Estimate

- 3-4 weeks

Team

- UI/UX Designer, Solution Architect

Effort

- ~200-250 person-hours

3. Development

3.1 Frontend Development

Activities

- Develop user interfaces (search, event pages, booking flow, etc.).
- Implement responsive design for web and mobile.

Deliverables

- Functional Frontend (Web and Mobile)

Time Estimate

- 6-8 weeks

Team

- Frontend Developers (2-3)

Effort

- ~500-700 person-hours

3.2 Backend Development

Activities

- Build APIs (user management, event listing, ticket booking, payment processing).
- Implement authentication and authorization.
- Set up database and caching mechanisms.

Deliverables

- Backend API Services

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Time Estimate

- 8-10 weeks

Team

- Backend Developers (2-3), DevOps Engineer

Effort

- ~600-800 person-hours

3.3 Mobile App Development

Activities

- Build native or cross-platform mobile apps (iOS and Android).
- Integrate APIs and features

Deliverables

- Mobile Applications

Time Estimate

- 8-10 weeks

Team

- Mobile Developers (2)

Effort

- ~500-700 person-hours

4. Testing

Activities

- Functional, integration, and performance testing.
- Cross-browser and cross-device testing.
- Bug fixing and refinements.

Deliverables

- Test Reports
- Bug-free Application

Time Estimate

- 4-6 weeks

Team

- QA Engineers (2)

Effort

- ~300-400 person-hours

5. Deployment and Go-Live

Activities

- Deploy application to production servers.
- Configure CI/CD pipelines for updates.
- Perform load testing and scalability assessments.

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Deliverables

- Live Application
- Deployment Documentation

Time Estimate

- 2-3 weeks

Team

- DevOps Engineer, Backend Developer

Effort

- ~100-150 person-hours

6. Maintenance and Support

Activities

- Monitor application performance and usage.
- Address user feedback and release updates.

OnGoing Deliverables

- Feature Enhancements
- Bug Fixes

Team

- DevOps Engineer, Backend Developer, Frontend Developer.

Effort

- ~50-80 person-hours/month (ongoing)

7. Estimates Summary

Phase	Time	Effort (Person-Hours)	Team Size
Requirements Gathering	2-3 weeks	100-120	2-3
Design	3-4 weeks	200-250	2-3
Frontend Development	6-8 weeks	500-700	2-3
Backend Development	8-10 weeks	600-800	2-3
Mobile Development	8-10 weeks	500-700	2
Testing	4-6 weeks	300-400	2
Deployment and Go-Live	2-3 weeks	100-150	1-2
Total (excluding maintenance)	33-44 weeks	2300-3120 hours	Varies

8. Assumptions

- Development involves standard features (user login, search, event listing, booking flow, payments).
- Scalable and secure tech stack (e.g., React for frontend, Java for backend, MySQL/PostgreSQL for database).
- Mobile apps use React Native or Flutter for cross-platform compatibility.
- Teams are working in Agile sprints (2-week cycles).