**Agile Poker Planning Tool - Project Plan**

**Project Name:** Agile Poker Planning Tool  
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**1. Project Objective**

To develop a collaborative Agile Poker Planning Tool available on both web and mobile platforms, enabling Agile teams to estimate tasks in real-time remotely. The tool will integrate with Trello, support whiteboard features, push notifications, data export, and session reporting.

**2. Scope of Work**

* Web and mobile app development (iOS and Android)
* Real-time collaborative Planning Poker sessions
* Trello board synchronization
* Whiteboard integration for team ideation
* Export functionality (CSV & PDF)
* Real-time push notifications
* Sprint and PI-based reporting

**3. Features**

**3.1 Agile Poker Session Features**

* Create/manage sessions
* Invite team members
* Display user stories
* Voting with Fibonacci sequence
* Timer control
* Simultaneous vote reveal
* Re-voting options
* Statistics (mean, median)
* Save session history

**3.2 Trello Integration**

* OAuth login
* Import boards/lists
* Sync results to Trello (comments/custom fields)
* Live updates from Trello

**3.3 Whiteboard Functionality**

* Real-time drawing tools (text, shapes, pen)
* Sticky notes
* Save/download snapshots
* Include whiteboards in reports

**3.4 Export and Reports**

* Export to CSV & styled PDF
* Include whiteboards in exports
* Download project session history
* Cross-team/sprint/PI view

**3.5 Push Notifications**

* Session invites, start/end voting
* Join/leave events
* Export status updates
* Trello sync status
* Deep link support

**4. Non-Functional Requirements**

* <1 sec latency, 50+ concurrent users
* TLS 1.2+, GDPR compliance
* Web browser compatibility
* Mobile apps: React Native
* 99.9% uptime on AWS/Azure

**5. Technical Stack**

| **Component** | **Technology** |
| --- | --- |
| Frontend | React.js / React Native |
| Backend | Node.js + WebSockets |
| Database | PostgreSQL |
| Cloud | AWS/Azure + Docker |
| Notifications | Firebase (FCM), APNs |
| Reporting | PDFKit + CSV Export |
| Storage | Cloud for whiteboards |
| Trello | Trello API |

**6. User Roles**

* **Host**: Create sessions, manage team, control voting.
* **Participant**: Join sessions, cast votes, view reports.

**7. Development Phases**

**Phase 1: Planning & Design**

* Finalize features
* Create wireframes
* Set up Firebase, Trello API access

**Phase 2: Core Development**

* Setup frontend and backend
* Implement user login/session management
* Develop Poker session feature
* Trello and whiteboard integration

**Phase 3: Exports & Notifications**

* Develop CSV & PDF export system
* Implement push notifications

**Phase 4: Testing & QA**

* Functionality and usability tests
* Performance/load testing

**Phase 5: Deployment**

* Deploy to AWS/Azure
* Mobile app submission to stores

**8. Constraints & Assumptions**

**Constraints:**

* Trello account required
* No desktop version
* Push permission must be granted

**Assumptions:**

* Users understand Agile practices
* Stable internet is available during sessions

**9. Future Enhancements**

* Jira integration
* AI-assisted story point suggestions
* Built-in voice and video conferencing

**10. Next Steps**

* Review this plan with stakeholders
* Start wireframe and mockup design
* Create GitHub project board and Gantt chart