

OpenTable AI Assistant: Focusing On Smart Booking Capabilities

An AI-driven tool for OpenTable users that enhances the booking process by offering instant, AI-curated dining suggestions based on user preferences and history. OpenTable AI streamlines group reservations and manages long-term dining itineraries, making it easier for users to discover new restaurants and enjoy personalized dining experiences. This not only improves user satisfaction and engagement but also provides OpenTable with valuable insights into dining trends and customer preferences.

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Spec Status: Draft / Mentor Review / **Completed**

Last Updated: 02/28/2025

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1. Introduction

This PRD details the integration of AI-driven enhancements into the OpenTable platform. The initiative aims to leverage advanced AI technologies to improve the reservation system by personalizing user experiences, optimizing booking efficiency, and enhancing the management of group and event-based dining reservations.

There is significant customer interest in AI-driven enhancements to the OpenTable platform. The research shows that the mean likelihood of adopting AI features on OpenTable is 7.7/10 across survey participants, signaling high interest. This reflects healthy optimism for AI-driven enhancements and an opportunity for OpenTable to gain market share as 38.5% of the survey participants do not currently use OpenTable when booking reservations.

2. Objectives

- **Increase Booking Efficiency:** Streamline the booking process using AI to reduce the time users spend searching for and booking restaurants.
- **Enhance Personalization:** Utilize AI to analyze user behavior and preferences to offer personalized restaurant recommendations and dining experiences.
- **Improve Group and Event Planning:** Develop AI tools that simplify the planning and coordination of group dining and special events, accommodating various user needs with high efficiency

3. Problem Statement / Motivation

Many users of OpenTable, particularly those planning dining out, face challenges in efficiently securing reservations that match their preferences and schedules. Users often struggle with finding available tables at preferred restaurants, especially during peak hours or for special events, which can lead to a frustrating booking experience. Additionally, planning group events or long-term itineraries involves managing multiple preferences and schedules, which current tools do not adequately support.

Problem Statement: How might we enhance the reservation process on OpenTable to offer instant, personalized booking options, and improve the management of group reservations and long-term dining plans to ensure a seamless, satisfying dining experience for all users?

4. User Stories / Use Cases

User Persona	Use Case Description	Proposed AI Solution	User Stories
Antonia Jamaica	Requires efficient tools for immediate booking, flexible rescheduling, and long-term planning.	AI-driven systems for predictive booking suggestions, real-time rescheduling, integrated with digital calendars for proactive management.	As a user I want: • to have predictive booking suggestions so I don't have to look at all options. • OpenTable to make multiple reservations in one click so I don't have to do each one. • OpenTable to adjust my reservations based on changes in my integrated calendar.
David Gabriel	Needs sophisticated discovery tools for unique dining experiences and efficient reservation management for his culinary adventures.	AI to provide personalized recommendations based on culinary trends, integrated with calendar and social features for seamless scheduling.	As a user I want: • to receive reservation recommendations that align with my culinary preferences. • scheduling a reservation to be seamlessly integrated with my calendar and as automated as possible.

Alex Ghana	Seeks reliable dining recommendations globally, aligned with travel schedules, requiring adjustments on the fly.	Global AI recommendations engine, itinerary-based dining suggestions, and dynamic adjustments as travel plans change.	As a user I want: • to be anywhere in the world and receive reservation recommendations that align with my culinary preferences. • scheduling a reservation to be seamlessly integrated with my travel itinerary with automated adjustments when necessary.
Elizabeth Gabriel	Manages large group bookings and coordinates dining with broader event planning, requiring detailed preference management.	AI tools to analyze group preferences in detail, suggest venues fitting diverse needs, and synchronize with comprehensive event management platforms.	As a user I want: • to have reservation suggestions based on the preferences of my group so I don't have to think about catering to everyone's needs.

5. Customer and Business Impact

Customer Impact

For OpenTable users, the AI-driven enhancements will significantly streamline the dining reservation process. These improvements will enable customers to:

- Instantly book tables that best match their dining preferences and schedules, reducing the time and effort spent searching for available reservations.
- Efficiently manage group reservations with diverse needs, ensuring that planning large gatherings or events is as stress-free as possible.
- Plan and book long-term dining itineraries with ease, allowing for a seamless integration of dining plans into users' busy calendars. This is particularly valuable for users who frequently organize business meals or social outings.
- Discover new restaurants tailored to their tastes, based on intelligent, data-driven recommendations, enhancing their dining experiences and exploring new culinary landscapes.

Business Impact

For OpenTable, these AI enhancements will provide substantial business benefits by:

- **Increasing User Engagement:** By offering a more personalized and efficient booking experience, users are likely to use OpenTable more frequently.
- **Improving Customer Retention:** Enhanced user satisfaction from these streamlined processes will help retain existing customers and attract new ones through positive word-of-mouth.
- **Gathering Valuable Data:** Collecting data on user preferences and behaviors will allow OpenTable to offer more targeted recommendations and improve its service.
- **Reducing Customer Support Queries:** By automating complex reservation scenarios and providing clear, immediate booking confirmations, the need for customer support interventions is minimized.

6. User Experiences

Experience 1: First-time Use of AI Booking on OpenTable

- **Scenario Description:** A user hears about OpenTable's new AI features and decides to try them during their next restaurant booking.
- **User Actions:**
 - The user logs into their OpenTable app, greeted by a new UI highlighting the AI features.
 - They are prompted to enter their dining preferences and past favorite bookings to tailor the AI recommendations.
 - The user inputs their preferences, and the AI suggests several restaurants based on their taste and booking history.
 - They select a restaurant, and the AI offers multiple reservation options based on predicted table availability.
 - The user books a table, and the AI confirms the reservation with personalized add-ons like a suggestion for a favorite dish or a special seat.
- **Outcome:**
 - The user enjoys a seamless booking experience and appreciates the personalized touch, encouraging them to rely more on AI for future bookings.

Experience 2: Group Booking with AI Assistance

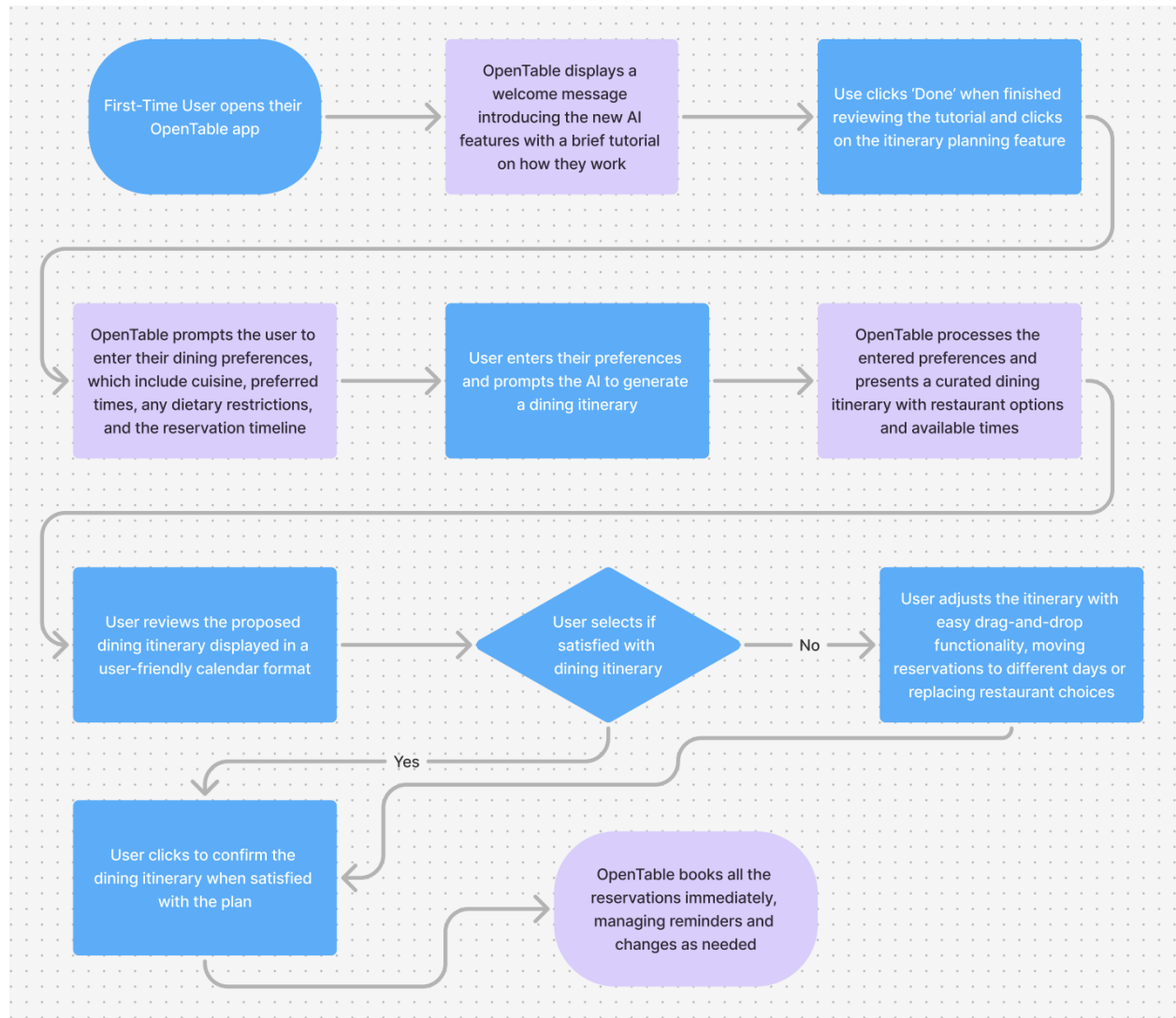
- **Scenario Description:** An event planner needs to arrange a dinner for a large group and uses OpenTable's AI to manage preferences and bookings.
- **User Actions:**
 - The planner logs into their OpenTable app and accesses the group booking feature in the OpenTable app.
 - They input details about the group's size, dietary restrictions, and preferred cuisines.
 - The AI suggests several restaurants that can accommodate the group, along with menu options and private room availability.
 - The planner reviews AI-generated layouts for seating and chooses the best option.

- After confirming the details, the AI completes the booking and sends a confirmation to all attendees with personalized invites.
- **Outcome:**
 - The planner successfully organizes the event with reduced effort and increased satisfaction among attendees, showcasing the AI's efficiency in handling complex bookings.

Experience 3: Long-term Itinerary Planning with AI

- **Scenario Description:** A regular OpenTable user plans their monthly dining outings using the AI's long-term planning tool.
- **User Actions:**
 - The user logs into their OpenTable app and accesses the itinerary planning feature in the OpenTable app.
 - The user inputs general preferences for dates, types of cuisine, and favorite dining times.
 - The AI suggests a monthly itinerary with a variety of restaurants, including some new recommendations based on recent trends.
 - The user adjusts the plan slightly using easy drag-and-drop features in the app.
 - The user approves the final itinerary, and the AI books all the reservations ahead of time, managing reminders and changes as needed.
- **Outcome:**
 - The user enjoys a well-planned dining month with minimal effort and discovers new favorite spots through AI suggestions.

User Flow - First-Time User Trying Out Long-Term Itinerary Planning



7. Functional Requirements

ID	Requirement	Priority (P0, P1, P2)
FR1	AI to automate real-time booking adjustments based on user calendar changes.	P0
FR2	AI to analyze user dining history and preferences to offer personalized restaurant recommendations.	P0
FR3	AI to facilitate the discovery of new dining experiences tailored to user tastes and current culinary trends.	P0

FR4	AI to support travel itinerary integration, providing dining options that align with user locations and schedules.	P1
FR5	AI-powered group booking tools that manage preferences and logistics for large events, integrating seamlessly with existing event planning tools.	P1
FR6	AI system to track user satisfaction and adapt recommendations accordingly.	P2

8. Non-Functional Requirements

- **Scalability:** The system must handle an increasing number of users and simultaneous bookings without degradation in performance.
- **Performance:** Response times for AI-driven features should not exceed 2 seconds.
- **Reliability:** The system should guarantee 99.9% uptime.
- **Security:** Implement state-of-the-art security measures to protect user data and comply with privacy regulations.
- **Maintainability:** Code should be set up to facilitate easy updates and maintenance.

9. Measuring Success

Metric	Goal	Measurement Tool
User Engagement	Increase booking transactions by 30%.	Analytics Dashboard
Customer Satisfaction	Achieve a customer satisfaction rate of 90%.	Surveys & Feedback Tools
Operational Efficiency	Reduce time spent on booking management by 30%.	Internal Reporting Systems

10. Milestones and Timelines

Milestone	Description	Timeline
Requirement Gathering	Complete detailed requirement analysis with stakeholder input.	Q1 2025
AI Development and Testing	Develop AI models and conduct thorough testing.	Q2-Q3 2025

User Testing and Feedback	Conduct beta testing with select users and gather feedback.	Q3 2025
Final Adjustments and Deployment	Make necessary adjustments and deploy enhancements platform-wide.	Q4 2025

11. FAQs

- **How will AI impact user privacy and data security?**
 - We are committed to maintaining the highest standards of data protection. AI functionalities will be developed with a privacy-by-design approach to ensure all user data is handled securely and in compliance with all relevant regulations.
- **What measures are being taken to ensure the reliability of the AI systems?**
 - AI systems are designed with redundancy and failover mechanisms to ensure high availability and reliability. Continuous monitoring and regular updates will further enhance system performance.
- **Can users opt out of personalized recommendations if desired?**
 - Yes, users will have the option to opt out of personalized recommendations, ensuring they have control over their data and the AI interactions

12. Stakeholders

- **Engineering Team:** Responsible for the technical development and integration of AI features.
- **Marketing Team:** To promote the new AI features and gather user feedback.
- **Customer Support Team:** To assist users in adapting to new features and gathering first-hand user feedback.
- **Executive Leadership:** Key to communicate the benefits of AI-driven enhancements on the OpenTable platform and get their buy-/approval.

13. Conclusion

This initial PRD offers a detailed roadmap for the development and implementation of AI-driven enhancements in OpenTable, ensuring that the project aligns with business objectives and user needs, while maintaining a focus on technological and operational excellence. Further feedback and approval will be sought as the project progresses.

14. Appendix

1. [Research plan](#)
2. [Research Synthesis](#)
3. [User and Use-case prioritization](#)
4. [User experience document](#)