DOORDASH

Doordash Project Documents

Team Synergy

Our Team

Product Manager

Adarsh

Scrum Master

Siddharth

Project Manager

Gunashree

Product Owner

Neha

Agenda

1 Product Roadmap

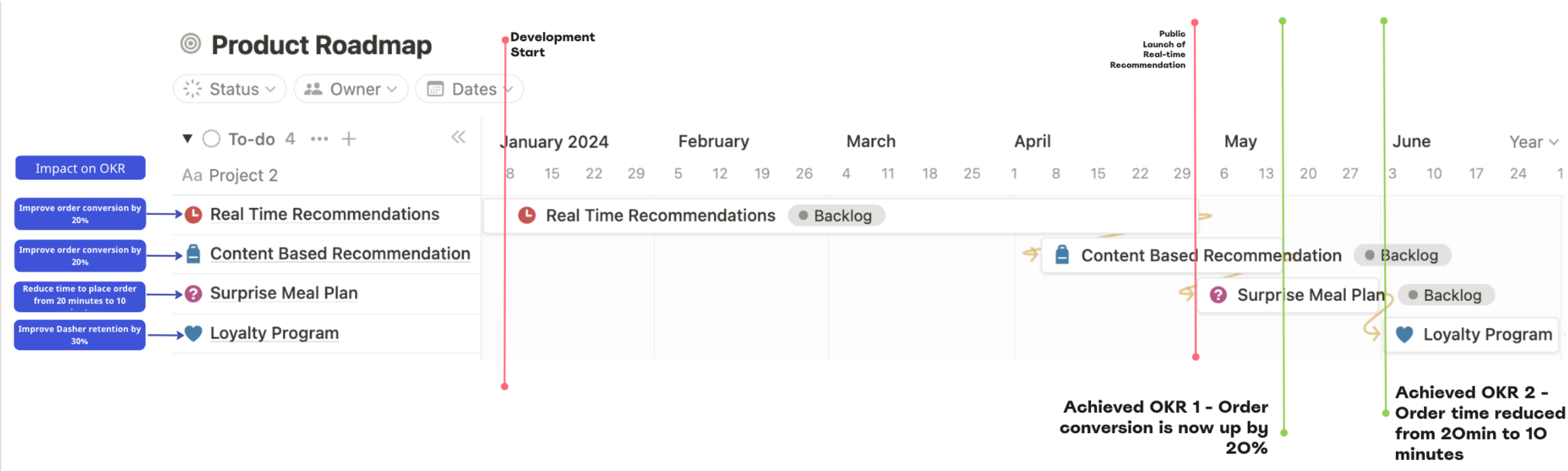
2 Project Plan

3 Prioritized Backlog

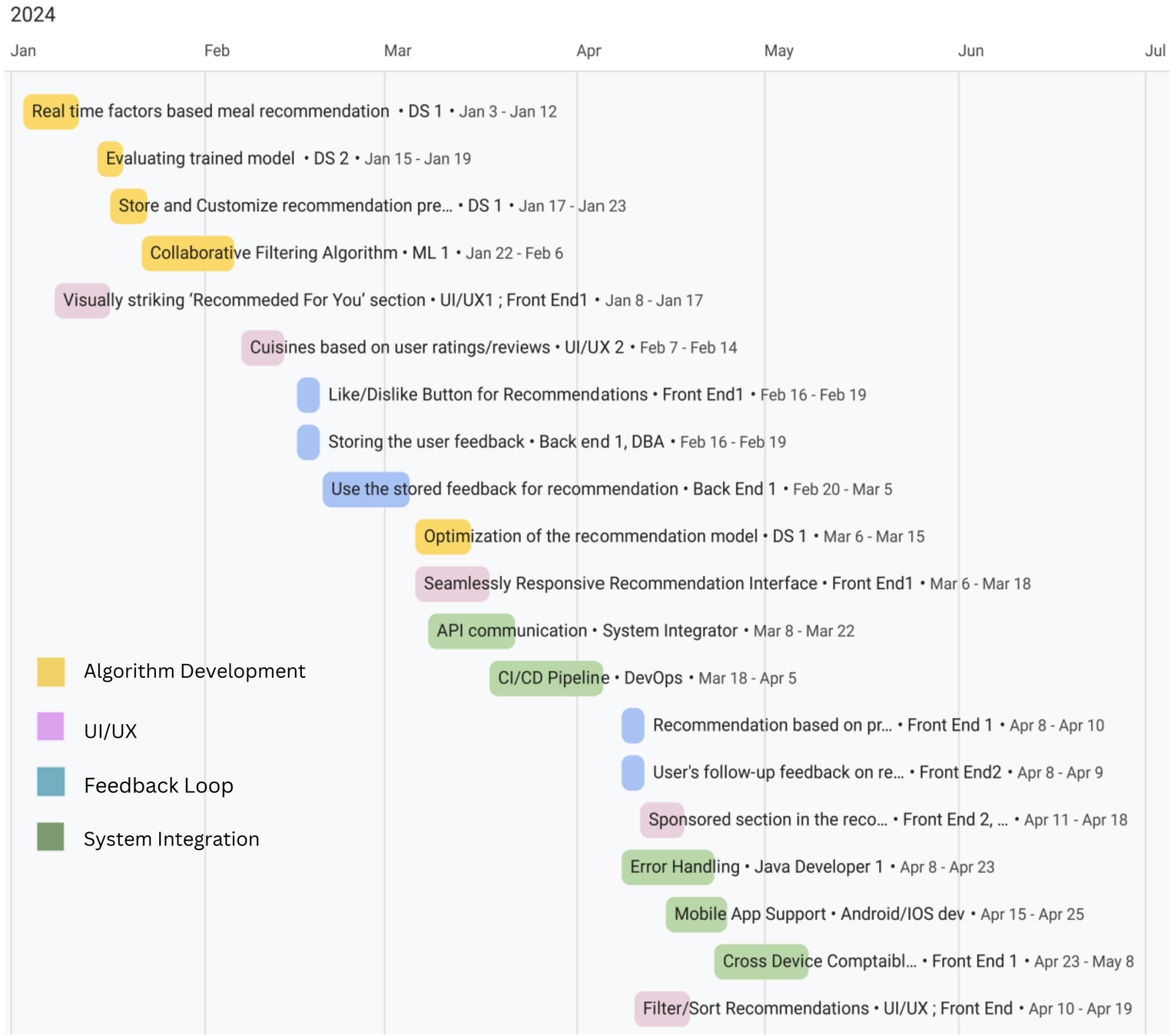
4 Sprint Breakup

Product Roadmap

With a focus on achieving our OKR’s we have prioritized our ideas and set eyes to build a world class Real time Recommendation system first and then building other ideas on top of it.



Project Plan



Project Plan

Drill in details for tasks

Aa Story name	Status	Assigned to	# Stor
"Recommended For You" section on the homepage that displays recommendation items so that I can quickly find my recommendations.			
As a user, I want a seamlessly responsive recommendation interface that loads recommended items instantly without any lag/interruptions and supports smooth swipe/navigation functionality, so that I have a hassle-free order-placing experience.	Not started		
As a user, I want a Filter and Sort mechanism OPEN can refine recommendations	Not started	UI/UX , Front End	
As a user seeking variety, I want to see new/trending cuisine and dishes based on user ratings and reviews, so that I can make informed decisions about the meal.	Not started		
As a marketing manager, I want a Sponsored section in the recommendation interface so that Doordash can empower local economies/partners and generate higher revenue.	Not started		
As a user, I want the meal recommendations to consider real-time factors like weather, time of day, and local events for personalized and context-aware suggestions.	Not started		
As a data scientist, I want to optimize the recommendation model so that it continually learns and improves its accuracy over time	Not started		
As a data scientist, I want to evaluate the trained model on relevant criteria, so that I can ensure the accuracy of the recommendation engine	Not started		
As a user, I want to be able to store and customize my recommendation preferences, so that the algorithm considers my evolving taste and dietary choices	Not started		

COUNT 28

As a user, I want a Filter and Sort mechanism so that I can refine recommendations

Assignee	G Gunashree
Status	Not started
Due	April 19, 2024
Project	Empty
Sprint	Empty
Priority	Low
Tags	Mobile, Improvement, Website
Acceptance Criteria	1. When users click on the 'Recommendation' section, display user-friendly controls such as dropdown menus, sliders, and checkboxes to select filtering and sorting criteria. 2. Users should have the ability to filter meal recommendations based on price range, and delivery time allowing them to set minimum and maximum limits for displayed items. 3. Users should have the ability to sort recommendations based on various parameters, such as price (low to high or high to low) or delivery time (min to max)
Assigned to	UI/UX , Front End
Description	Filter Mechanism to refine recommendations
# Story Point	8

Assumptions

- The technology infrastructure can handle the increased data processing demands.
- Availability of sufficient data to train and refine the recommendation algorithms.
- The project team has sufficient resources allocated to achieve a minimum of 50 story points in each sprint without there being any resource reallocation in future sprints.
- Each story point is equivalent to one working day

Risks

- Due to unclear QA scope, project timelines may be impacted, leading to potential delays and unforeseen cost increases.
- Unplanned leaves, turnover, or unavailability of key team members can disrupt project timelines
- Expanding project scope without proper evaluation may lead to increased workload and timeline extensions.
- There exists uncertainty regarding the effectiveness and quality of the recommendation engine. If the completion of this component falls short of expectations, it may act as a critical risk to the project completion, potentially jeopardizing the successful execution of dependent stories and impacting the overall project timeline.

Bottleneck

- We have limited number of data scientist resourses
- Since Database administrator is a shared resource across all teams we have limited bandwidth in making data base changes

Prioritized Backlog

- We prioritized our 4 scope items and the corresponding 20 user stories.
- We initially prioritized tasks based on algorithm development to establish a solid foundation for our recommendation engine. (P0)
- Simultaneously, we addressed frontend and feedback dependencies essential to the process.
- The next priority focused on system integration, ensuring seamless communication among all components. (P1)
- Once the essential elements were in place, optimization became our third priority. We concentrated on complete system integration, enabling features across all devices, and directing our efforts toward business outcomes. (P2)

Prioritized Backlog

Epic	Stories	Story Points	Priority
Algorithm Development and Model Training	As a user, I want the meal recommendations to consider real-time factors like weather, time of day, and local events for personalized and context-aware suggestions.	8	P0
	As a data scientist, I want to optimize the recommendation model so that it continually learns and improves its accuracy over time	8	P1
	As a data scientist, I want to evaluate the trained model on relevant criteria, so that I can ensure the accuracy of the recommendation engine	5	P0
	As a user, I want to be able to store and customize my recommendation preferences, so that the algorithm considers my evolving taste and dietary choices	5	P0
	As a machine learning engineer, I want to implement a collaborative filtering algorithm that considers user preferences, so that the recommendation engine can provide personalized suggestions.	11	P0
User Interface	As a user, I want to see a visually striking “Recommended For You” section on the homepage that displays recommendation items so that I can quickly find my recommendations.	8	P0
	As a user, I want a seamlessly responsive recommendation interface that loads recommended items instantly without any lag/interruptions and supports smooth swipe/navigation functionality, so that I have a hassle-free order-placing experience.	9	P1
	As a user, I want a Filter and Sort mechanism so that I can refine recommendations	8	P2
	As a user seeking variety, I want to see new/trending cuisine and dishes based on user ratings and reviews, so that I can make informed decisions about the meal.	6	P0
	As a marketing manager, I want a Sponsored section in the recommendation interface so that Doordash can empower local economies/partners and generate higher revenue.	6	P2
System Integration	As a system integrator, I want to establish secure APIs between different components for real-time data flow in meal recommendations so that I ensure a reliable and seamless communication infrastructure, without getting bogged down by technical intricacies.	11	P1
	As a DevOps Engineer, I want to deploy continuous integration and continuous deployment (CI/CD) pipelines so that I can automate the integration and deployment processes.	15	P1
	As a developer, I want to implement error handling mechanisms so that I can gracefully manage communication errors between components, ensuring a resilient system.	12	P2
	As a user, I want to seamlessly access the real time meal recommendations on my Android or iOS device to ensure a consistent and delightful experience regardless of the mobile platform I use.	9	P2
	As a user, I want meal recommendations to be synchronized across all devices when accessed using my account so that I can enjoy a consistent and personalized culinary experience, regardless of the device I use.	12	P2
Feedback Loop	As a user, I should be able to know if a recommendation was based on an previously liked recommendation so i can relate to that positive experience	4	P2
	As a system I should be able to use user feedback so it can be used to make better recommendation decisions.	10	P1
	As a system, we should be able to store the feedback so it can be reused for future recommendations.	5	P0
	As a user once i've placed a order via recommendation, i need to be shown a feedback on order so that i can share if was helpful	5	P2
	As a user I should be able to see a like and dislike option so that I can give feedback on the recommendations I am shown.	2	P0

Sprint Breakup

Breaking up the Backlog into 3 semi-equal sprints based on story points and our prioritization

In this sprint, we are developing a collaborative filtering algorithm for personalized recommendations, adding a feedback system, creating a "Recommended For You" section, incorporating new cuisine suggestions, implementing user preference customization, and ensuring feedback storage for future recommendations while evaluating model accuracy.

Sprint 1	
User Story	**Points**
As a machine learning engineer, I want to implement a collaborative filtering algorithm that considers user preferences, so that the recommendation engine can provide personalized suggestions.	11
As a user I should be able to see a like and dislike option so that I can give feedback on the recommendations I am shown.	2
As a user, I want to see a visually striking “Recommended For You” section on the homepage that displays recommendation items so that I can quickly find my recommendations.	8
As a user seeking variety, I want to see new/trending cuisine and dishes based on user ratings and reviews, so that I can make informed decisions about the meal.	6
As a user, I want the meal recommendations to consider real-time factors like weather, time of day, and local events for personalized and context-aware suggestions.	8
As a data scientist, I want to evaluate the trained model on relevant criteria, so that I can ensure the accuracy of the recommendation engine.	5
As a user, I want to be able to store and customize my recommendation preferences, so that the algorithm considers my evolving taste and dietary choices	5
As a system, we should be able to store the feedback so it can be reused for future recommendations.	5
Total	50

In this sprint, we are focusing on implementing user feedback to enhance recommendations, establishing secure APIs for real-time data flow, deploying CI/CD pipelines for automation, ensuring a responsive interface for users, and optimizing the recommendation model for continual improvement in accuracy.

Sprint 2	
User Story	**Points**
As a system I should be able to use user feedback so it can be used to make better recommendation decisions.	10
As a system integrator, I want to establish secure APIs between different components for real-time data flow in meal recommendations so that I ensure a reliable and seamless communication infrastructure, without getting bogged down by technical intricacies.	11
As a DevOps Engineer, I want to deploy continuous integration and continuous deployment (CI/CD) pipelines so that I can automate the integration and deployment processes.	15
As a user, I want a seamlessly responsive recommendation interface that loads recommended items instantly without any lag/interruptions and supports smooth swipe/navigation functionality, so that I have a hassle-free order-placing experience.	9
As a data scientist, I want to optimize the recommendation model so that it continually learns and improves its accuracy over time	8
Total	53

This sprint focuses on user experience improvements, including tracking recommendations based on likes, order feedback, a Filter and Sort mechanism, synchronized meal recommendations across devices, and a Sponsored section, along with implementing error handling for system resilience.

Sprint 3	
User Story	**Points**
As a user, I should be able to know if a recommendation was based on an previously liked recommendation so i can relate to that positive experience	4
As a user once I've placed a order via recommendation, i need to be shown a feedback on order so that i can share if was helpful	2
As a developer, I want to implement error handling mechanisms so that I can gracefully manage communication errors between components, ensuring a resilient system.	12
As a user, I want a Filter and Sort mechanism so that I can refine recommendations	8
As a user, I want meal recommendations to be synchronized across all devices when accessed using my account so that I can enjoy a consistent and personalized culinary experience, regardless of the device I use.	12
As a user, I want to seamlessly access the real time meal recommendations on my Android or iOS device to ensure a consistent and delightful experience regardless of the mobile platform I use.	9
As a marketing manager, I want a Sponsored section in the recommendation interface so that Doordash can empower local economies/partners and generate higher revenue.	6
Total	53

Sprint 1

In this sprint, we are developing a collaborative filtering algorithm for personalized recommendations, adding a feedback system, creating a "Recommended For You" section, incorporating new cuisine suggestions, implementing user preference customization, and ensuring feedback storage for future recommendations while evaluating model accuracy.

Sprint 1	
User Story	**Points**
As a machine learning engineer, I want to implement a collaborative filtering algorithm that considers user preferences, so that the recommendation engine can provide personalized suggestions.	11
As a user I should be able to see a like and dislike option so that I can give feedback on the recommendations I am shown.	2
As a user, I want to see a visually striking “Recommended For You” section on the homepage that displays recommendation items so that I can quickly find my recommendations.	8
As a user seeking variety, I want to see new/trending cuisine and dishes based on user ratings and reviews, so that I can make informed decisions about the meal.	6
As a user, I want the meal recommendations to consider real-time factors like weather, time of day, and local events for personalized and context-aware suggestions.	8
As a data scientist, I want to evaluate the trained model on relevant criteria, so that I can ensure the accuracy of the recommendation engine.	5
As a user, I want to be able to store and customize my recommendation preferences, so that the algorithm considers my evolving taste and dietary choices	5
As a system, we should be able to store the feedback so it can be reused for future recommendations.	5
Total	50

Sprint 2

In this sprint, we are focusing on implementing user feedback to enhance recommendations, establishing secure APIs for real-time data flow, deploying CI/CD pipelines for automation, ensuring a responsive interface for users, and optimizing the recommendation model for continual improvement in accuracy.

Sprint 2	
User Story	**Points**
As a system I should be able to use user feedback so it can be used to make better recommendation decisions.	10
As a system integrator, I want to establish secure APIs between different components for real-time data flow in meal recommendations so that I ensure a reliable and seamless communication infrastructure, without getting bogged down by technical intricacies.	11
As a DevOps Engineer, I want to deploy continuous integration and continuous deployment (CI/CD) pipelines so that I can automate the integration and deployment processes.	15
As a user, I want a seamlessly responsive recommendation interface that loads recommended items instantly without any lag/interruptions and supports smooth swipe/navigation functionality, so that I have a hassle-free order-placing experience.	9
As a data scientist, I want to optimize the recommendation model so that it continually learns and improves its accuracy over time	8
Total	53

Sprint 3

This sprint focuses on user experience improvements, including tracking recommendations based on likes, order feedback, a Filter and Sort mechanism, synchronized meal recommendations across devices, and a Sponsored section, along with implementing error handling for system resilience.

Sprint 3	
User Story	**Points**
As a user, I should be able to know if a recommendation was based on an previously liked recommendation so i can relate to that positive experience	4
As a user once I've placed a order via recommendation, i need to be shown a feedback on order so that i can share if was helpful	2
As a developer, I want to implement error handling mechanisms so that I can gracefully manage communication errors between components, ensuring a resilient system.	12
As a user, I want a Filter and Sort mechanism so that I can refine recommendations	8
As a user, I want meal recommendations to be synchronized across all devices when accessed using my account so that I can enjoy a consistent and personalized culinary experience, regardless of the device I use.	12
As a user, I want to seamlessly access the real time meal recommendations on my Android or iOS device to ensure a consistent and delightful experience regardless of the mobile platform I use.	9
As a marketing manager, I want a Sponsored section in the recommendation interface so that Doordash can empower local economies/partners and generate higher revenue.	6
Total	53

Thank You