

User Stories Development:

Roles and Interactions:

➤ User

- **Role:** End-user looking to eat healthy using personalized meal plans and gamified motivation.
- **Key interactions:**
 - Register/login
 - Set preferences/goals
 - Receive AI-based meal plans
 - Track meals (manual, barcode, image)
 - Participate in challenges
 - Earn badges, points
 - View leaderboard & dashboard
 - Receive reminders/notifications

➤ Nutritionist

- **Role:** Offers expert guidance and feedback on user nutrition habits.
- **Key interactions:**
 - View assigned user logs and data
 - Provide plan suggestions or improvements
 - Send feedback or warnings
 - Track user progress over time

➤ Admin

- **Role:** Manages platform, user base, content, and gamification elements.
- **Key interactions:**
 - Manage users (ban, deactivate, monitor)
 - Create/update challenges and rewards
 - Maintain food/nutritional database
 - Monitor Leaderboard integrity
 - Stop Sellers from monopolizing a drug

➤ Seller

- **Role:** Sells supplements, prescription drugs and on-the-shelf drugs.
- **Key interactions:**
 - Add listing
 - Make discounts for bulk purchases
 - Make periodic sales
 - Find missing products and try to import them

User Stories:

No.	User Story	Acceptance Criteria
1	As a User, I want to receive personalized meal plans based on my goals so that I can eat healthier.	<ul style="list-style-type: none">• The system generates meal plans matching inputs.• Users can regenerate or edit preferences.• Plans include daily nutritional breakdown.
2	As a User, I want to log meals using images or barcodes so that tracking is fast and convenient.	<ul style="list-style-type: none">• Users can upload a food photo or scan a barcode.• The system detects food and adds it to daily logs.• Logs update calories and nutrient totals.• Manual entry is also available.
3	As a User, I want to earn points and unlock badges for completing health goals so that I stay motivated.	<ul style="list-style-type: none">• Points awarded for logging meals, completing plans, etc.• Badges unlocked based on streaks or challenge wins.• Total points and badges shown on profile.
4	As a User, I want to join community health challenges to stay accountable.	<ul style="list-style-type: none">• Users can view and join available challenges.• Challenges have clear criteria and time limits.• Users receive progress updates and results.• Completion earns points or badges.
5	As a User, I want to get reminders to log meals and hydrate, so I don't forget.	<ul style="list-style-type: none">• The system sends push/email reminders.• User can enable/disable reminders.• Links open directly to log screen.
6	As a User, I want to view my progress over time with graphs so I can track improvement.	<ul style="list-style-type: none">• User dashboard includes weight trends, nutrient history, and streak stats.• Progress is displayed in weekly and monthly views.• Graphs are updated in real-time.
7	As a User, I want to be able to remove foods I have allergic reaction towards.	<ul style="list-style-type: none">• Users can add food items to their saved allergies.• User can view his allergy list in profile.• Foods containing allergens are flagged and hidden from search results.
8	As a User, I want to be able to select dietary choices (veganism, Keto, sugarless, ...).	<ul style="list-style-type: none">• Users can access from the navigation menu the dietary choice section.• For each dietary choice, the system must have a list of food items that the diet is incompatible with.• If a user chooses a diet, all food items that are incompatible with that diet are hidden from recommendations.
9	As a User, I want to be able to consult a nutritionist through a chat room.	<ul style="list-style-type: none">• Users can access the nutritionist consultation from main navigation.• Users can view nutritionist profiles including credentials, ratings, price per consultation and availability.

No.	User Story	Acceptance Criteria
		<ul style="list-style-type: none"> User can select a nutritionist and choose an available slot. Users can select online payment methods (eWallet, Telda, credit card). Payment should be put in Nutritionist's balance. Chat uses end-to-end encryption.
10	As a User, I want to be able to cancel a consultation.	<ul style="list-style-type: none"> The User must mention a reason for the cancellation. If the user cancels within 48 hours of the appointment, he's not eligible for a refund. If a User cancels 48+ hours before an appointment, he's eligible for a 70% refund.
11	As a User, I want to be able to create custom challenges with friends so that we can stay motivated together.	<ul style="list-style-type: none"> Users can invite friends to join a challenge. Users can set custom challenge goals and duration. A private leaderboard is visible only to invited users. Points are awarded based on completion, just like public challenges.
12	As a User, I want to be able to reserve an in-person consultation with a nutritionist.	<ul style="list-style-type: none"> Users must be able to access the in-person consultation from the navigation menu. Nutritionists should offer his availability and location of his clinic. A third-party should ensure, that the location of the clinic is not a home or a private place that will not make our User not safe. User can pick a timeslot that is suitable for both him and the nutritionist The User must pay a deposit for the consultation through an online payment. Nutritionist receives deposit for the consultation in his balance, from which we deducted the processing TAX.
13	As a User, I want to be able to buy supplements with good reviews.	<ul style="list-style-type: none"> Make the marketplace reachable from the navigation bar Let user add to cart the products he wants to buy Let User continue to checkout pick his location and payment details.
14	As a User, I want to be able to link my tracking devices (smart watch, phone health app).	<ul style="list-style-type: none"> The user can access "connect devices" section in his profile. The system can support linking with several devices (apple watch, Garmin, Huawei bands...). Users can visualize training data in charts and graphs. Data should be only accessible to user or shared with community upon his request.

Nutritionist Stories:

No.	User Story	Acceptance Criteria
15	As a Nutritionist, I want to view user logs and plans so I can give feedback.	<ul style="list-style-type: none"> Nutritionists can view daily logs, challenges, and progress charts Nutritionists can leave written feedback or send alerts. Users notified of feedback with an option to respond.
16	As a Nutritionist, I want to edit or suggest changes to user meal plans so that users receive expert advice.	<ul style="list-style-type: none"> Nutritionists can override AI meal suggestions. Users are notified and can accept or decline. The system tracks all manual edits.
17	As a nutritionist, I want to be able to postpone or cancel a user consultation.	<ul style="list-style-type: none"> If a nutritionist postpones a consultation, we must offer the calendar of the nutritionist to the user to be able to pick another time. Users can decline the postponement and receive a full refund. If a nutritionist cancels a user consultation, the user receives a full refund.
18	As a Nutritionist, I want to be able to offer the option for users to make in-person consultations with me.	<ul style="list-style-type: none"> Nutritionists should be able to put the option for in-person consultations on his profile. Nutritionists should offer his availability, location and pricing.
19	As a Nutritionist, I want to be able to send the User a post-consultation.	<ul style="list-style-type: none"> After consultation, the Nutritionist should send document as pdf, to be accessible on User's profile. The report is only accessible to the user, to comply with privacy regulations. The User must authenticate before accessing the document.
20	As a Nutritionist, I want to see community trends in food logging and common issues so I can tailor advice more effectively.	<ul style="list-style-type: none"> The system shows anonymized data trends such as skipped meals, common deficiencies, and logging patterns. Nutritionists can filter insights by age, diet type, or health goals through their dashboard.
No.	User Story	Acceptance Criteria

21	As a Nutritionist, I want to be able to override the calorie count requirement for the User that asked for my consultation.	<ul style="list-style-type: none"> • Upon request from the User, the Nutritionist must be able to access the calorie requirement for user. • Users must be notified through email and app that their calorie requirement has changed. • If calorie count is bigger than the average by a great degree (>4000), notify the nutritionist that action can't be executed
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Admin Stories:

No.	User Story	Acceptance Criteria
22	As an Admin, I want to manage users so I can keep the platform safe and functional.	<ul style="list-style-type: none"> • Admin can search, view, and deactivate user accounts. • Admin can ban users from violating policies. • All actions are logged with timestamps.
23	As an Admin, I want to create and manage global challenges, so users always have new goals.	<ul style="list-style-type: none"> • Admin can define challenge title, description, duration, and rewards. • Challenges appear on user dashboards. • Admin can end or pause challenges manually.
24	As an Admin, I want to maintain the nutrition database, so meal tracking remains accurate.	<ul style="list-style-type: none"> • Admin can add/edit food items and nutrient data. • Changes reflect in the meal planning system. • Data is validated before saving.
25	As an Admin, I want to monitor app performance and user engagement statistics so that I can make data-driven improvements.	<ul style="list-style-type: none"> • Dashboard shows metrics like daily active users, average session time, and most-used features. • Admins receive notifications when key performance indicators fall below defined thresholds.
26	As an Admin, I want to be able to remove periodically nutritionists with ratings less than 2/5.	<ul style="list-style-type: none"> • System should remind Admin, every month to remove low rated Nutritionists. • Nutritionists should get notification that his/her profile will be removed from the system, a month prior. • Nutritionists should be able to work on key areas that he needs to work on to improve his rating. • Nutritionists can make new profiles 6 months after being banned from the system.
27	As an Admin, I want to be able to remove supplements that violate FDA standards.	<ul style="list-style-type: none"> • Admin should be able to flag products sold by doubtful sources. • Those products should be sent to be verified by the FDA • If those products are not verified, the product is removed, and the seller is flagged as untrusted.

28	As an Admin, I want to be able to notify premium Sellers of missing (or on demand) supplements.	<ul style="list-style-type: none"> Admin can see analytics of most searched for supplements. Graphs aid Admin to pick the products to notify the sellers. Admin can notify sellers every month of what products to focus on.
29	As an Admin, I want to be able to stop Sellers from monopolizing a drug.	<ul style="list-style-type: none"> Stop Users from buying more than 10 items of the same drug. Analyze suspicious activities by Users (only buying the same product in bulk or buying more than a threshold of the drug per month) Warn User of suspicious activity Delete User's account if activity persists.

Seller Stories:

No.	User Story	Acceptance Criteria
30	As a Seller, I want to be able to put supplements and drugs to be sold.	<ul style="list-style-type: none"> Seller can create new listings. Seller can set price for drug. Seller can update inventory or remove items. Seller can connect his local database in a secure way to automate inventory updates.
31	As a Seller, I want to be able to push my product in searches.	<ul style="list-style-type: none"> Implement a premium tier for sellers. Let Seller push his product forward so that it appears on top in searches.
32	As a Seller, I want to be able to make discounts for bulk purchases.	<ul style="list-style-type: none"> If a User buys with money more than 1000 EGP in one purchase, he's eligible for a 10% discount and free delivery. If a User purchases with more than 2000 EGP in a month, he's eligible for a gift (protein shake, protein bars....)
33	As a Seller, I want to be able to make sales on products periodically.	<ul style="list-style-type: none"> The system analyzes sales for sellers, upon request. If sales are low, notify him to make sales for his key products.
34	As a Seller, I want to receive monthly insights on my sales performance and customer feedback so I can improve my offerings.	<ul style="list-style-type: none"> The system provides a monthly report with the number of sales, average rating per product, and return rate.

		<ul style="list-style-type: none">• Sellers receive suggestions like “offer discount,” “restock soon,” or “consider bundling.”• Reports are downloadable as PDF.
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