



Ying Wu College of
Computing

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Health Track

Fitness APP

Developers

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Product Backlog (PBL)

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Overview of Fitness APP

ID/#	Actor	Activity /User Story	Value	Notes	Rank	Estimate [Story Points or Ideal Hours]
	As...	I want functions like...	So that...	1sp=3ideal hour		sum = [94sp]=282h
1	Customer	Customer information collection (weight loss goal, age, weight, height, etc) - put into database		1	1	3sp
2		Track calories of food items - put into database			4	15 sp
3		Community features: forum, challenges			5	17 sp
4		Reward system - award badges for achieving goals			3	7 sp
5		Recommendation system - custom meal and exercise plans			2	22 sp
6		reminder system - notify customers to finish their daily goals			6	10 sp
7		Back-end data analysis system			7	20 sp

Testing extra: $20\% * 282 = [19sp]57h$

Total: sum+extra = $[113sp]339h$

Sprint 1: Customer Information collection (Vinoothna)

ID/#	Actor	Activity /User Story	Value	Notes	Rank	Estimate [Story Points or Ideal Hours]
		Use case 4				
	As...	I want functions like...	So that...	1sp = 3 ideal hours		sum = 9sp
1	Customer	information collection (goal, age, weight, height, etc) - table				2 sp
2		Calculating maximum daily calorie intake				2sp
3		Provide custom Workout Routine based on Body type				3sp
4		Measuring physical activities for Rewards				2sp

Sprint 1: Back-end data analysis system(Longchao Da)

ID/#	Actor	Activity /User Story	Value	Notes	Rank	Estimate [Story Points or Ideal Hours]
	As...	I want functions like...	So that...			Sum=20sp
1	Customer	User distribution analysis(gender, location)				2 sp
2		User amount incremental analysis(register, subscribe)				1 sp = 3 ideal hours
3		User demand/goal understanding				1 sp
4		Data Mining on the recommending dependencies				3 sp
5		Visualization of user distributed map				3 sp
6		Access to manage the users (add/delete/lock)				2 sp
7		Violation information detection function (text/audio/avatar)				4 sp
8		Abnormal account alert (fraud/stolen account)				4 sp

Sprint 2: Track User Calories (Khushali)

ID/#	Actor	Activity /User Story	Value	Notes	Rank	Estimate [Story Points or Ideal Hours]
		Use case 2				
	As...	I want functions like...	So that...	1sp =3 hours		Sum=9sp
1	Customer	Home page that contains calories summary				3 sp
2		Journal page - log food calorie information				3sp
3		Barcode scan feature to enter calories and manual calorie entry feature				3sp

Sprint 3: Community[motivation, activities](Rohan)

ID/#	Actor	Activity /User Story	Use Case 6	Value	Notes	Rank	Estimate [Story Points or Ideal Hours]
	As...	I want functions like...		So that...	1sp = 3 ideal hours		Sum:16sp
1	Customer	Forum page functions - posting, commenting, upvoting, post history Transformation Stories - users can post their transformation pictures in FORUM PAGE				1	5 sp
2		Host challenges (pushups, pullups, squats, and so on rewarded with FitCoins to be used for shopping) Informational Posts by Experts on wellbeing (nutrition, workout, mental health and so on) with filters based on your goals and interests - in FORUM PAGE				6	4 sp
3						4	3 sp
5		Q/A and Discussion in FORUM PAGE				3	2 sp
6		Recipes in FORUM PAGE				2	2 sp

Sprint 4: Reward system(Winona)

ID/#	Actor	Activity /User Story	Use Case 3	Value	Notes	Rank	Estimate [Story Points or Ideal Hours]
	As...	I want functions like...			So that...		Sum=9sp
1	Customer	Badge design					3sp
2		What should the rewards be for? Most cal burned, longest workout, etc					1 sp
3		Badges for special events					2 sp
4		Leaderboard board for specific badge types (ex: most cal burned in a running workout)					3 sp

Sprint 5: Recommendation system(Hao Mei)

ID/#	Actor	Activity /User Story Use case 7	Value	Notes	Rank	Estimate [Story Points or Ideal Hours]
	As...	I want functions like...	So that...		1 sp = 3 ideal hours	Sum= 22sp
1	Customer	browsing and displaying the articles (front)			1	3sp
2		video displaying page (front)			2	3sp
3		upload the media sources (back)			4	4sp
4		recommendation algorithms (data)			6	6sp
5		recommendation adjustment and settings			5	2sp
6		content management			7	2sp
7		content interaction (like/mark/tag/download)			3	2sp
8						

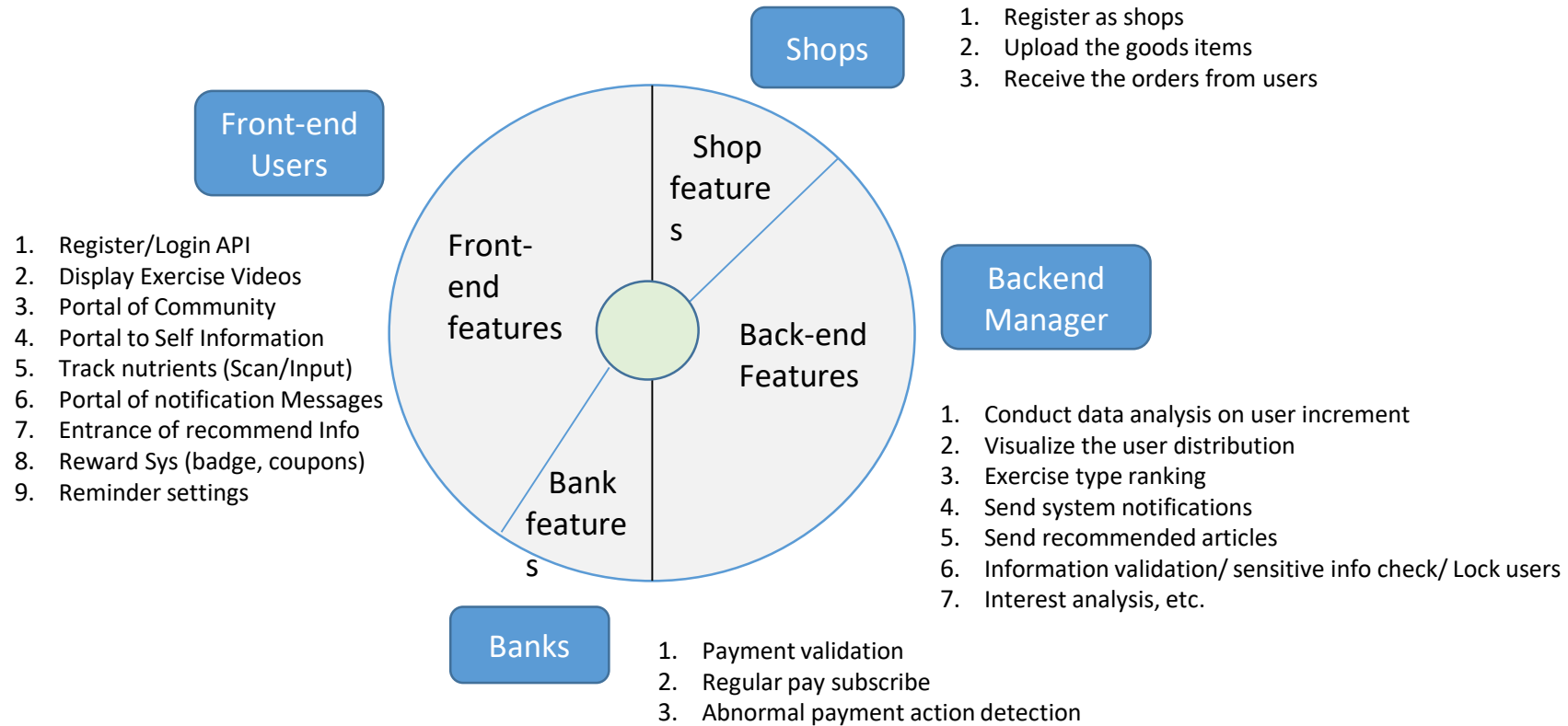
Sprint 6: Reminder system(Rutva)

ID/#	Actor	Activity /User Story	Value	Notes	Rank	Estimate [Story Points or Ideal Hours]
		Use case 5				
	As...	I want functions like...	So that...		1 sp = 3 ideal hours	Sum= 5 sp
1	Customer	Be able to change/set reminders				2 sp
3		Rise & shine, Getup & move (Daily reminder)				1 sp
4		Reminder to input calories for food items				1 sp
5		Complete exercise goal reminder				1 sp

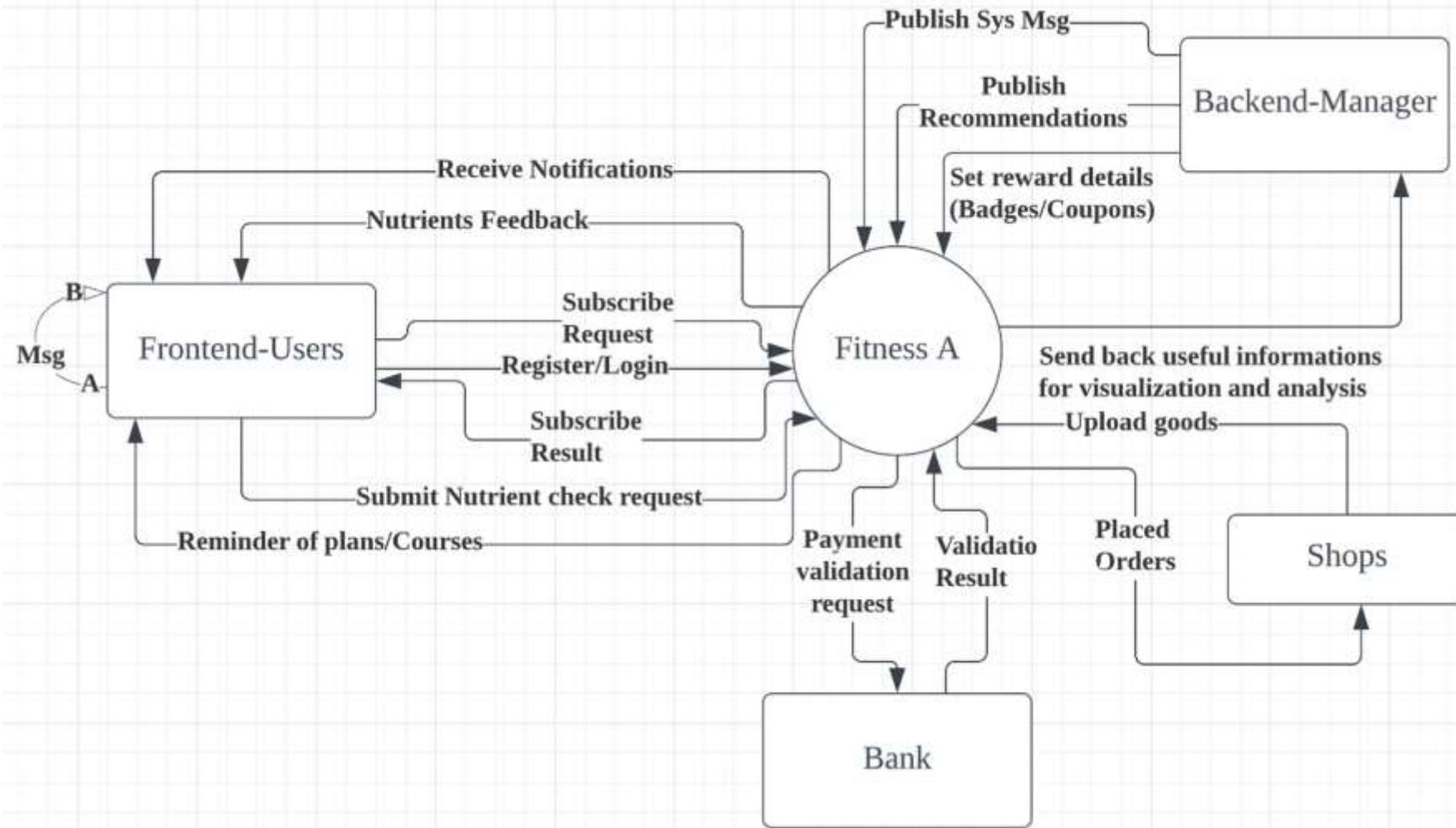
Overview Context Diagram(informal)

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HealthTrack-informal overview-context diagram v1



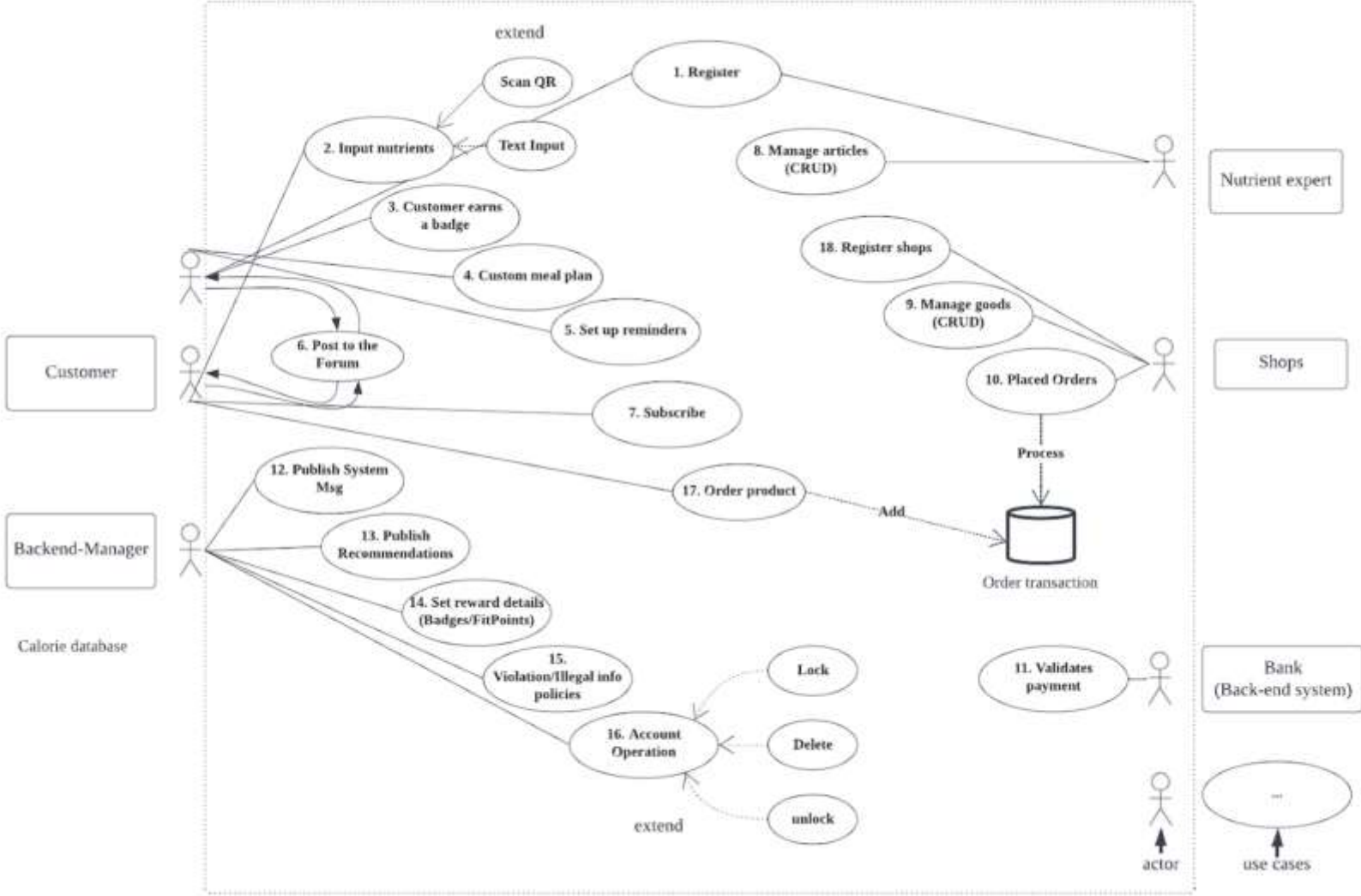
HealthTrack-informal overview-context diagram v2



System-level Context Diagram_(functional segments)

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System level Use Case model



System boundary

Use Case Example([more information](#))

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Use Case Template

(Adopted from Alistair Cockburn)

Use Case: <number> <the name should be the goal as a short active verb phrase>

CHARACTERISTIC INFORMATION

Goal in Context: <a longer statement of the goal, if needed>

Scope: <what system is being considered black-box under design>

Level: <one of: Summary, Primary task, Subfunction>

Primary Actor: <a role name for the primary actor, or description>

Channel to primary actor: <e.g. interactive, static files, database>

Supporting Actors: <list of other systems needed to accomplish use case>

Channel to Secondary Actors: <e.g. interactive, static, file, database, timeout>

PRE-CONDITIONS, END-CONDITIONS, TRIGGER

Preconditions: <what we expect is already the state of the world>

Success End Condition: <the state of the world upon successful completion>

Failed End Condition: <the state of the world if goal abandoned>

Trigger: <the action upon the system that starts the use case, may be time event>
