

Gymnetics Sprint 1

Team Byte Squad

Meet Gymnetics

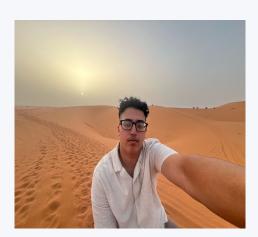




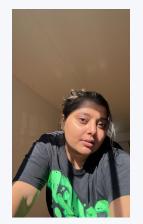
Samiha Shareef



Jia Lau



Adam Miftahelidrissi



Diya Ashish Patel



Marlen Cuevas Duarte



Improvements from Professor Feedback

- Better structured planning (using software like Jira)
- Created list of tasks for each sprint in order to be more organized
- Updating task statuses (in progress, done, not yet completed)
- Able to view who is assigned to each task
- Better communication

Project Description



Team:

ByteSquad

Project Description: The Gymnetics web application is a smart supplement, nutrition, and fitness planning platform that generates AI-powered supplement recommendations and workout routines tailored to each user's goals, body metrics, and experience level. Unlike generic fitness programs or manual research, our application delivers customized plans instantly, helping users achieve results faster and more efficiently.

Benefit Outcomes:

- Increased user adherence to personalized workout and supplement plans
- Improved fitness goal tracking and progress monitoring
- Streamlined onboarding through a guided quiz experience
- Time-saving and confidence-boosting by eliminating the need for manual planning
- User satisfaction from having expert-level guidance without needing a personal trainer

GitHub Link:

https://github.com/htmw/2025Su-ByteSquad

Working Agreement

Gymnetics Working Agreement

June 16, 2025

COMMUNICATION

Our team has decided to use WhatsApp as our main communication tool for quick updates, questions, and task follow-ups. We also hold regular virtual meetings through Google Meet to talk in more detail. These meetings are scheduled twice a week at 8:00 PM. After each meeting, any assigned tasks or important notes will be shared in the WhatsApp group to make sure everyone is on the same page, including those who may have missed the meeting. All members are expected to check the group chat regularly and stay updated throughout the week.

Communication Framework:

- Main channels: WhatsApp for messaging and updates; Google Meet for video meetings
- Weekly meetings: Twice a week on Google Meet at 8:00 PM
- · Follow-up: Tasks posted on Jira
- Team members are expected to stay active in the chat and give an early notice if they
 can't attend a meeting

WORKFLOW

Each meeting, the team will go over what needs to be done, and members will be able to volunteer for tasks that they are comfortable with. Responsibilities must be clearly assigned so that everyone understands who is doing what. Throughout the week, team members should update the group on their progress so that others can provide feedback or assistance as needed.

We believe that teamwork is essential, and no one should feel compelled to work alone. If someone is falling behind or requires assistance, others are urged to jump in and help keep things going. Our goal is to divide tasks equally, keep on track, and support one another so that the project is done properly and on schedule.

PERSONA 1 - UNORGANIZED STUDENT





"I WANT TO LEAD A HEALTHIER LIFESTYLE WITHOUT EXTREME DIETING AND EXERCISE. I WANT TO BE CONSISTENT AND DISCIPLINED."

MARIA CASTRO

EXPERIENCE

Beginner - only familiar with at home bodyweight workouts

DETAILS

- 20 years old
- 5′5″, 135lbs
- Full time student & part -time Bookkeeper

GOALS

- Build Lean Muscle Mass
- Learn How to Weightlift
- 3 Eat Consistent & Healthy Meals

PAIN POINTS

Has only been to the gym a handful of times, inconsistent with workouts & getting enough meals in the day.

Doesn't know what to eat.

^{**} Maria will input all her information (age, weight, height, and goals) and receive a 3 day workout split, macro breakdown, and supplement suggestions. She will receive reminders to log in her meals. The suggestions from the store will be daily multivitamins, creatine, and whey isolate or plant-based protein powders.

PERSONA 2 - AMATEUR BODYBUILDER





"I WANT TO BECOME A BODYBUILDER AND JOIN MY FIRST COMPETITION THIS YEAR."

0 C+r

MOTIVATIONS

- Build Muscle Mass & Strength
- Join bodybuilding competition
- Reach 210 lbs

JAMES BROWN

DETAILS

- 28 years old
- 6'2", 178 lbs
- Retail Sales Associate

EXPERIENCE

Intermediate - lifts often but doesn't keep track of his nutrition & weight

** James will input all his information (age, weight, height, and goals) and receive a 5 day workout split, macro breakdown, and supplement suggestions. The suggestions will be creatine, pre workout, mass gainer, fish oil, and whey isolate or whey blend protein powders.

PAIN POINTS

Doesn't have a consistent workout split, doesn't know how to track macros & calories, not familiar with supplements

MVP



• The Minimum Viable Product (MVP) is the simplest version of our app that delivers core value to users.

Gymnetic MVP Features:

- User Sign-up/Login
- Profile: Add height, weight, fitness goals
- Browse Supplements Store
- Add to Cart
- Mock Checkout (no payment yet)
- Simple Trainer Dashboard
- Customized workouts and nutritional recommendations
- This allows users to experience our fitness ecosystem from Day 1!

Backend

- Java
- Spring Boot

AI Integration

Deepseek

Third Party

- Docker
- AWS S3
- Stripe

Tech Stack

Frontend

- React
- CSS
- HTML

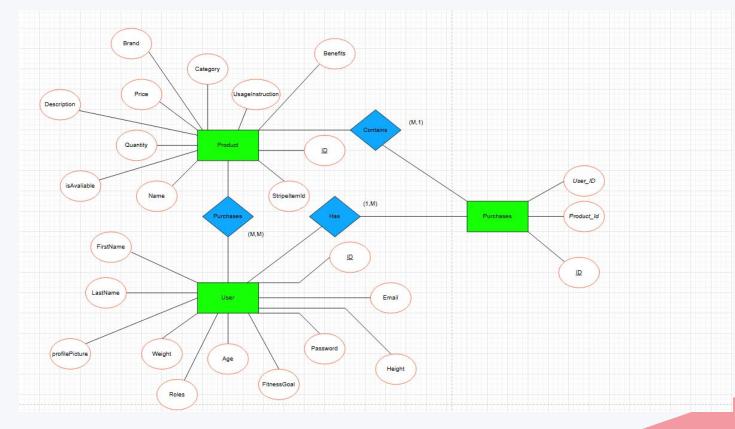
Database

MySQL





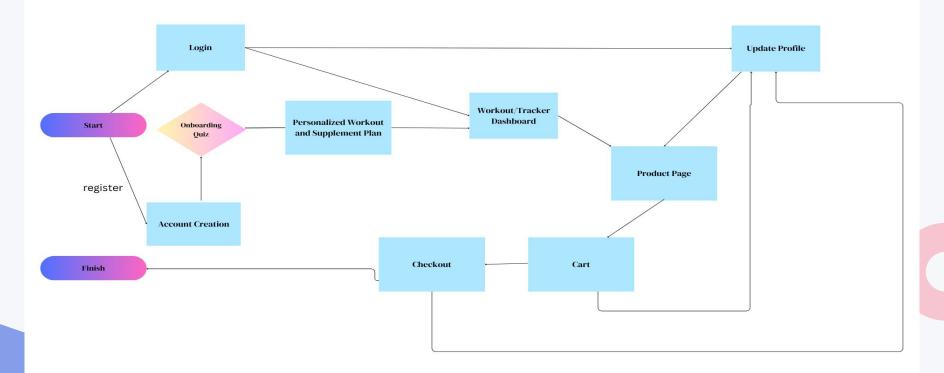






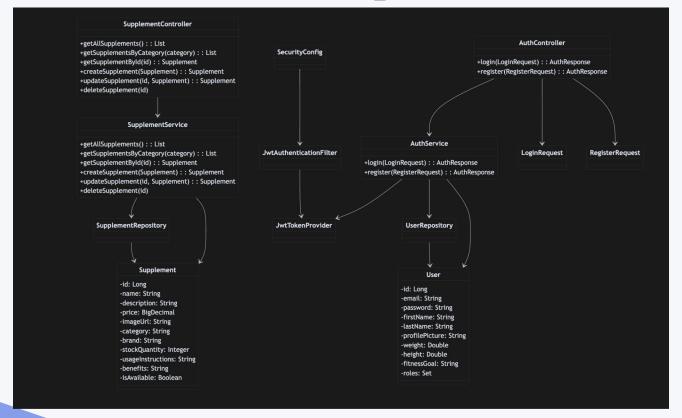


State Diagram



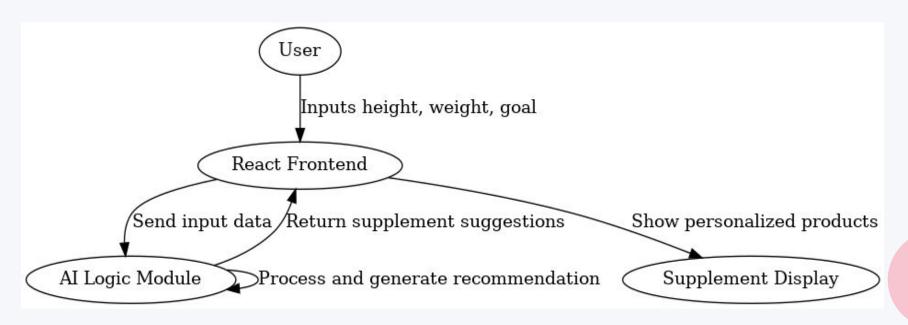


Class Diagram



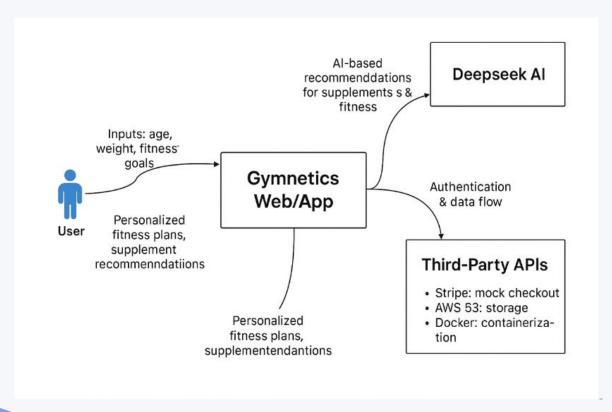


Sequence Diagram



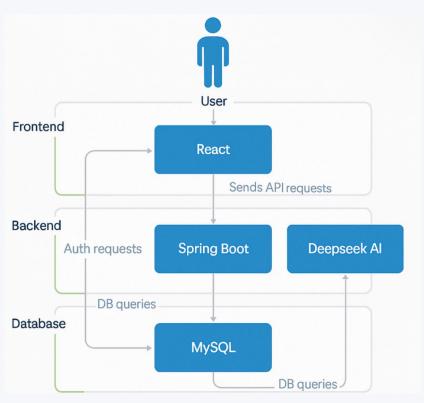


Context Diagram





Architecture Diagram



Product Backlog pt.1

Sprint 1 – Product Backlog with User Stories & Acceptance Criteria

ID	User Story	Story Points	Priority	Feature	Acceptance
				Component	Criteria
US_01	As a user, I want to register for an account so I can access the web app.	5	High	User Account	• Form mus include: Name, Email, Password, DOB • Password stored securely (encrypted) • Successful registration redirects to dashboard
US_02	As a user, I want to complete an onboarding quiz to get personalized supplement and workout recommend ations.	6	High	AI Personalizati on	with confirmation • Quiz captures: fitness goals, weight, height, age, sex, experience level. Data is saved securely to the database. System provides:



Product Backlog pt.2

SYNNETICS SYNNETICS SOLITIONS

					System
					provides:
		1			• A
					personalized
					workout
					routine
					(exercises,
					sets, reps,
					equipment).
					• A
					supplement
					recommend
					ation list
					(name,
					dosage,
					purpose,
					timing).
US_03	A I	5	High	User	\$100 miles
05_03	As a user, I want to log	5	High	Account	• Login only succeeds
	in securely				with valid
	to access my				credentials • Invalid
	account.				credentials
					show an
					error
					message • Secure
					session
					token created on
					login
US_04	As a user, I	4	Medium	Forgot	• "Forgot
	want to reset my			Password	password"
	my password if I			Page	link on login page
	forget it.				• Email sent
					with reset
					link • Users can
					choose a
					new
					password and log in
US_05	As a user, I	3	Low	Static	• Page
~-	want to view			Content	contains
	the About Us page to learn				mission statement,
	about				team bios,
	Gymnetics.				images
					• Accessible
					via navbar





US_06	As a user, I want to view supplement products available for purchase.	5	High	Products Page	 Product listing shows image, name, price "Add to Cart" button present
US_07	As a user, I want to add and manage items in my cart.	5	High	Cart Page	 Items added/remo ved update cart Subtotal displayed Checkout button present
US_08	As a user, I want to complete my purchase using Stripe payments.	8	High	Stripe Integration	• Stripe form integrated and functional • Payment success/erro r displayed • Email receipt sent on success



Product Backlog pt.4

US_09	As a user, I want to view the home page to learn about the web app.	3	Medium	Home Page	 Welcoming content and banner Navbar links to login/registe r/products/about us
US_10	As a team, we want to publish our sprint planning video to YouTube.	2	Medium	Planning Documentati on	 Uploaded video link in wiki Title/descri ption include GitHub link and sprint goals



Sprint 1 – T	est Cases				
User Story					
US_01	As a user, I want to register for an account so I can access the web app.				
тсю	Test Case Title	Steps	Expected Result	Execution Status	Execution Date
TC_01_01	Verify Account Creation	Fill registration form → Submit	Account created and dashboard redirect	Pass	07/07
User Story					
US_03	As a user, I want to log in securely to access my account.				
TC ID	Test Case Title	Steps	Expected Result	Execution Status	Execution Date
		Go to login → Enter	User logged in		
TC 02 01	Verify Account Sign-in	NOTE THE PERSON NAMED IN COLUMN NAMED IN COLUM	100-00	Pass	07/07
10_02_01	Sign-in	Subilit	Starteu	rass	07/07



User Story					
US_02	As a user, I want to complete an onboarding quiz to get personalized supplement and workout recommendations.				
тс ю	Test Case Title	Steps	Expected Result	Execution Status	Execution Date
TC_03_01	Complete Onboarding Quiz and Receive Recommendati ons	Login → Open quiz → Submit responses	User receives both workout and supplement recommendatio ns on dashboard	Pass	07/07
User Story					
US_04	As a user, I want to reset my password if I forget it.				
			Expected	Execution	
TC ID	Test Case Title	Steps	Result	Status	Execution Date
TC 04 01	Reset Password	Click "Forgot Password" → Enter email → Follow link → Set new pass	Password reset successfully; login works	Pass	07/07



User Story					
US_06	As a user, I want to view supplement products available for purchase.				
тс ю	Test Case Title	Steps	Expected Result	Execution Status	Execution Date
11					
TC_05_01	Display Products Page	Navigate to /products	Product list displays with image, name, and price	Pass	06/30
User Story					
US_07	As a user, I want to add and manage items in my cart.			Pass	06/23
тс ю	Test Case Title	Steps	Expected Result	Execution Status	Execution Date
TC_06_01	Add to Cart	Click "Add to Cart" on a product	Item appears in cart, total updated	Pass	06/23
TC_06_02	Remove from Cart	Remove item from cart view	Cart updates, total recalculated	Pass	06/23



User Story					
US_08	As a user, I want to complete my purchase using Stripe payments.				
TC ID	Test Case Title	Steps	Expected Result	Execution Status	Execution Date
TC_07_01	Complete Stripe Payment	Add item → Proceed to checkout → Submit payment	Payment success message + email receipt	Pass	06/23
User Story					
US_05	As a user, I want to view the About Us page to learn about Gymnetics.				
тс ю	Test Case Title	Steps	Expected Result	Execution Status	Execution Date
K .					
TC_08_01	Load About Us Page	Click 'About Us' in nav bar	About Us content displays	Pass	06/30



User Story					
US_09	As a user, I want to view the home page to learn about the web app.				
TC ID	Test Case Title	Steps	Expected Result	Execution Status	Execution Date
TC_09_01	Load Home Page	Navigate to home (/)	Welcome message and navigation links shown	Pass	06/30
Testers					
Marlen Cuevas I	Duarte				
Jia Lau					
Adam Miftahelid	rissi				
Diya Patel					
Samiha Shareef				•	

Velocity & Completed/Committed Ratio Chart



Total Story Points: 46

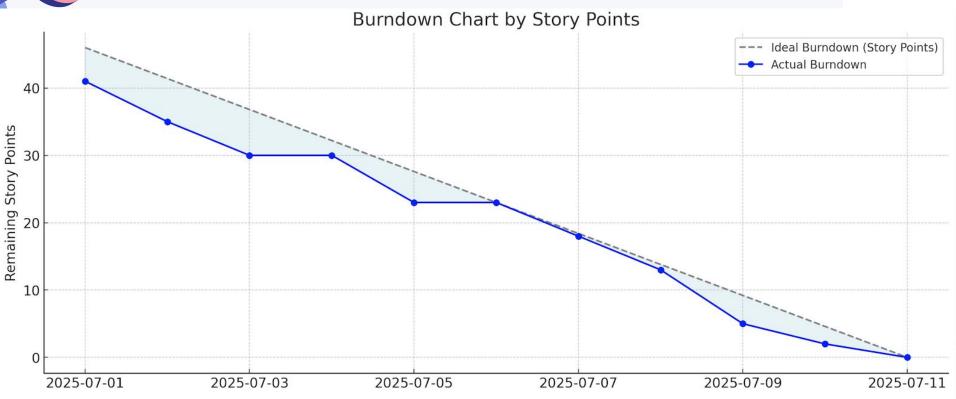
Story Points Completed: 35







Burndown Chart







Stripe API

Type: REST API

Purpose: Loading checkout shop, and allowing users to purchase items listed in Stripe How it works:

- The application makes a POST request which allow users to checkout the item they want to purchase.
- API being called is in StripeController with backend logic in StripeService

DeepSeek API

Type: REST API
Purpose: Analyzes users
information such as
age,weight,height and
recommend supplements from
our shop.

How it works:

- The application will read a GET request of user's information, and injected that information to the Prompt.
- API being called is in DeepSeekController with backend logic in DeepSeekService

APP

CREATING AN ACCOUNT

- A first time user registers their account on the app before signing in.
- Once inside the app, a user can navigate to a supplements store where they can select items on the screen and add them to a cart.
- Once satisfied they open the cart and pay the online checkout.

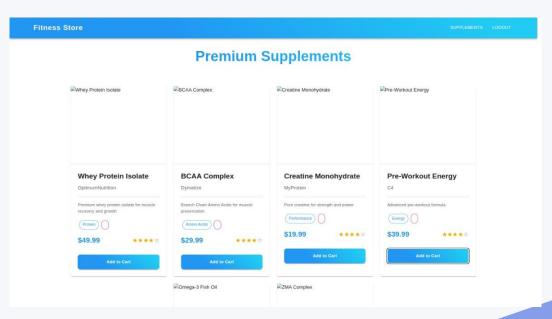
Join us to	start your fitness journey
Email Address *	Password*
test@gmail.com	••••••
First Name*	Last Name *
Frank	test
Weight (kg) *	Height (cm) *
67	6
Fitness Goal*	
Ribbed	
	reate Account

SIGNING IN



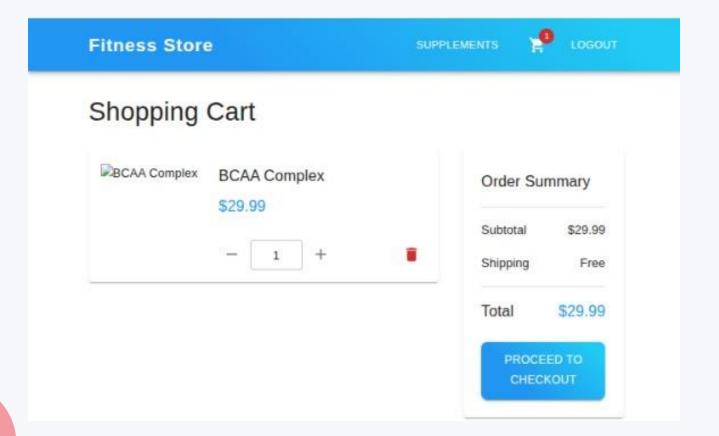


SUPPLEMENTS STORE



CHECKOUT





THANK YOU



https://github.com/htmw/2025Su-ByteSquad/wiki