



BITP 3113 OBJECT ORIENTED PROGRAMMING

PROJECT: ERRANDS RUNNING SYSTEM – PHASE 1

LECTURER NAME: DR EMALIANA BINTI KASMURI

STUDENT NAME:
MUHAMMAD AFIQ MUHAIMIN BIN MOHD ZAINI
AZMEEN SYAHMI BIN MD FAIRUZ
MUHAMMAD HADI BIN SUPARMAN
NURAZYMAN BIN AHAMAD
PEH JIA DA

MATRIC NUMBER:

B032410648

B032410681

B032410672

B032410675

B032410901

SEMESTER: 2-2024/25

Identify the entity/domain classes for your project.

Model

Class	Fields	Methods
User (abstract)	 id: int, name: String email: String password: String 	login(): boolean,logout(): void
Customer	requestHistory: List <errand></errand>	 submitRequest(errand: Errand): void, viewStatus(errandId: int): String
Runner	 schedule: Schedule, performanceStats: PerformanceStats, assignedErrands: List<errand></errand> 	 markCompleted(errandId: int) void, updateAvailability(): void
Errand	 id: int, type: String, description: String, pickupAddress: String, dropoffAddress: String, status: String, assignedRunner: Runner 	 assignRunner(runner: Runner): void, updateStatus(newStatus: String): void
Quote	id: int,amount: float,createdAt: datetime	generate(): float
Payment	paymentld: int,method: String,status: String	process(amount: float): boolean
Schedule	availableSlots: List <timeslot></timeslot>	isAvailable(time: datetime): boolean
TimeSlot	startTime: datetime,endTime: datetime	• (none)
PerformanceStats	completed: int,rating: float	 updateRating(newRating: float): void

Communication	 messages: List<message></message> 	 sendMessage(to: User, content: String): void
Message	 timestamp: datetime, sender: User, content: String 	• (none)

View

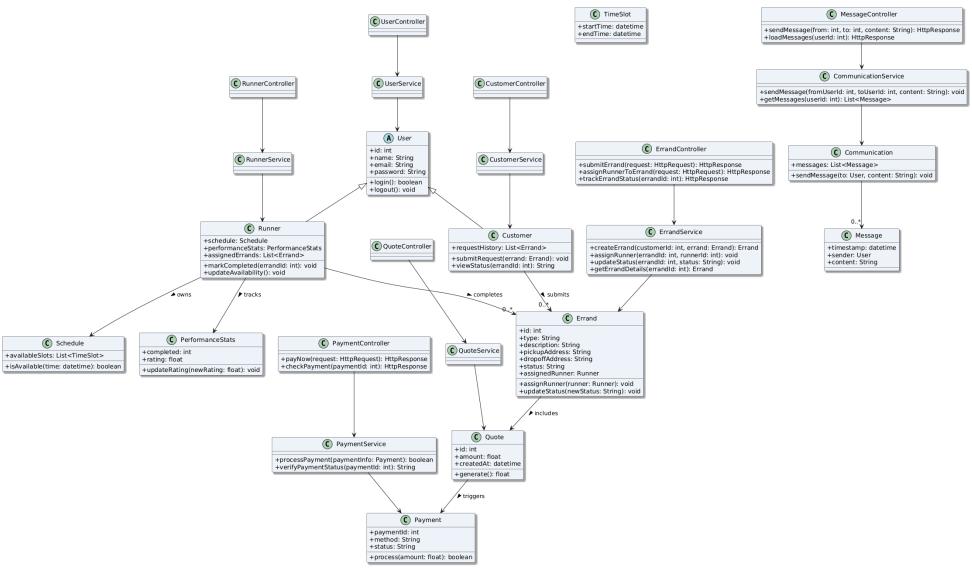
Page / Component	UI Elements / Fields	Purpose
LoginPage	Email input, Password input, Login button	User authentication
CustomerDashboard	Request History Table, Submit New Errand Button, Errand Status Display	Customer manages and views errands
ErrandRequestForm	Pickup Address, Drop-off Address, Description, Submit button	Form to request a new errand
RunnerDashboard	Assigned Errands List, Mark Complete Button, Availability Toggle	Runner views and updates assigned errands
AvailabilityForm	Time Slot Selector, Submit Availability Button	Runner updates availability
QuoteDisplay	Quote Amount, Details of Services, Accept Quote Button	Displays cost quote to customer
PaymentPage	Payment Method, Card Info, Submit Payment Button	Process payment
ChatInterface	Message Box, Send Button, Message History	Messaging between runner and customer

Controller

Controller Class	Methods
UserController	• login(),
	logout(),
	register()
CustomerController	submitErrand(),
	viewHistory()
RunnerController	viewAssignedErrands(),
	markCompleted()
ErrandController	createErrand(),
	updateStatus(),
	assignRunner()
QuoteController	• getQuote(),
	viewQuoteDetails()
PaymentController	makePayment(),
	getPaymentStatus()
MessageController	sendMessage(),
	viewMessages()

UML Class Diagram

Errand Runner Management System - MVC UML Class Diagram (Key Details)



Login Page



Create New Account

Already Registered? Login

NAME

Lorem Ipsum

EMAIL

Lorem Ipsum@greatsite.com

PASSWORD

sign up





Login

Sign in to continue

EMAIL

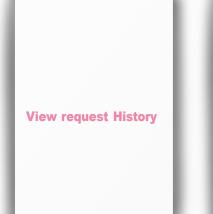
Lorem lpsum@greatsite.com

PASSWORD

sign up

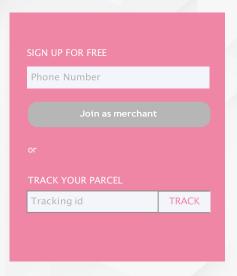
Customer Dashboard



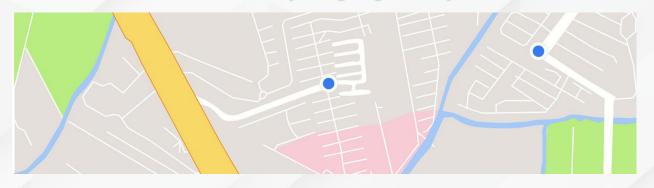


Errand status tracking (viewStatus)

List of active/ completed errands



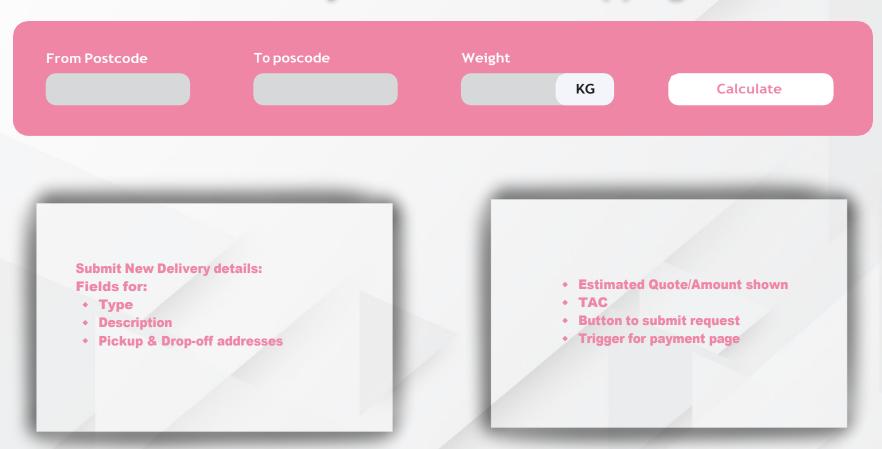
Latest activity / ongoing delivery





Submit New Errand Page

Get the **best delivery rates** with our shipping calculator!



Payment Page

Just **one more step** before we can successfully complete the process!







- Payment method selection
- TAC
- Key in detailed online banking / card

- Sumarize order deliveryAmount to pay
- "Confirm & Pay" button
- Confirmation message



- Order complete notification
- Summarize info customer order delivery
- Estimate day
- Generate Tracking Number

Runner Dashboard



All List of assigned errands



 Show performance: completed count & average rating

• Mark errand as completed

 View/update availability

Message Customer Display

Runner Schedule Page

• Manage available time slots

Calendar/time selector

• Save/update availability

Communication / Messages

- Inbox-style message view
- Chat or message view with sender and content
- Send message to another user (via sendMessage)