

Requirement Specification Report of WAGA

Version: 2.3

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Modification History

Who	What	Version	When
A. K	added list of FR and NFR requirements	0.1	25/08/2022
M. H & L. S	Edited FR requirements 3.1.4 & 3.1.8	0.2	27/08/2022
D.G	Added list of assumptions	0.3	27/08/2022
L. S	edited introduction and project scope	0.4	27/08/2022
T. D	A created use case diagram	0.5	03/09/2022
A. K & L. S	Finalized Use case diagram & added payment to diagram	0.6	05/09/2022
D. G & M.H	Created out of scope & glossary	0.7	05/09/2022
D. G & L. S	Finalized assumptions	0.8	06/09/2022
M. H & L. S	Created domain classes	0.9	07/09/2022
A. K & D. G	Created domain class diagram	1.0	08/09/2022
A.K and L. S	Report structure and formatting	1.1	09/09/2022
End Of Assignment 01			
Abilaash K.	Created activity diagram, use case description, and	2.1	20/10/2022
Abilaash K.	User interface and data dictionary	2.2	25/10/2022
Abilaash K.	Finalising formatting	2.3	29/10/2022
End Of Assignment 02			

Table of Contents

DISTRIBUTION LIST	2
MODIFICATION HISTORY	2
1. INTRODUCTION.....	4
2. GLOSSARY OF TERMS.....	4
3. PROJECT SCOPE.....	4
3.1. FUNCTIONAL REQUIREMENTS	5
3.2. NON-FUNCTIONAL REQUIREMENTS	5
3.3. OUT OF SCOPE ITEMS	5
4. ASSUMPTIONS	5
5. CASE DIAGRAM.....	6
6. DOMAIN MODEL CLASS DIAGRAM.....	7
END OF ASSIGNMENT 01	7
7. STATE MACHINE DIAGRAMS (SMD).....	8
7.1 STATE MACHINE DIAGRAM (SMD) 1 – TEST	8
7.2 STATE MACHINE DIAGRAM (SMD) 2 – MEMBERSHIP ENROLMENT.....	9
8. USE CASE DESCRIPTION OR ELABORATED USE CASE (UCE)	10
8.1 ELABORATION OF TEST.	10
8.2 ELABORATION OF MEMBERSHIP ENROLEMENT	12
9. ACTIVITY DIAGRAMS	14
9.1 ACTIVITY DIAGRAM TEST	14
9.2 ACTIVITY DIAGRAM MEMBERSHIP ENROLMENT	15
10. SYSTEM SEQUENCE DIAGRAMS	16
10.1 SEQUENCE DIAGRAM - TEST	16
10.2 SEQUENCE DIAGRAM- MEMBERSHIP ENROLMENT.....	17
11. USER INTERFACE (GUI)	18
11.1 USER INTERFACE #1 - TEST	18
11.2 USER INTERFACE #2 – MEMBERSHIP ENROLMENT	19
12. DATA DICTIONARIES.....	20
12.1 ELEMENTARY DICTIONARY - TEST	20
12.2 COMPOSITE DICTIONARY – MEMBERSHIP ENROLMENT	20
REFERENCES.....	21

1. INTRODUCTION

WAGA has recently acquired a website for their members as they want to switch to an online model for their business. This would allow the members and athletes to renew and join the membership, register for their vents, and make payments for the memberships.

2. GLOSSARY OF TERMS

Term	Definition
Membership Status	Determined based on the athlete's current state membership plan
User Access	Authorisation to access portals on verifying user's credentials
Staff Privilege	Authorization is based on the individual's position in the organization

3. PROJECT SCOPE

The main requirement and purpose for this system is for WAGA to convert their membership application and event management process online which was otherwise done manually by six volunteers. This system will allow pre-existing members and non-members to renew/obtain a membership, allow them to register for events and competitions and make payments online. The system should be capable of storing members' membership details and give updates on event information and any other short notice changes. The system should automatically add members to the mailing list when they get a membership or remove users from the mailing list if their membership has expired. On the staff admin side, the system should export a list of the athletes that register for events, set capacity limits for events. To enrol in events the athletes should be approved members of the association. The system should allow the staff to add certain important documents, membership policies and other sports related news on the website as well.

3.1. FUNCTIONAL REQUIREMENTS

- 1.1.1 The system must allow an applicant to fill in all the details before prompting the next step.
- 1.1.2 The system must allow members to register and pay for competition/test.
- 1.1.3 The system should allow members to upload music for the competition.
- 1.1.4 The members should be allowed to edit their details on the system.
- 1.1.5 The admin should be able to set capacity limits for each competition or test.
- 1.1.6 The system should sort members and participation details based on admin preferences.
- 1.1.7 The system should have a newsfeed on the homepage.
- 1.1.8 The system should be able to edit types of memberships
- 1.1.9 The system should allow the admin to access the details of members.
- 1.1.10 The details of members should be stored even after the expiration date of membership.

3.2. NON-FUNCTIONAL REQUIREMENTS

- 1.1.11 The system must use an SSL certificate for processing payments.
- 1.1.12 The transaction must be completed within 8 minutes.
- 1.1.13 The system must allow members to upload music up to 320kps MP3 files.

3.3. OUT OF SCOPE ITEMS

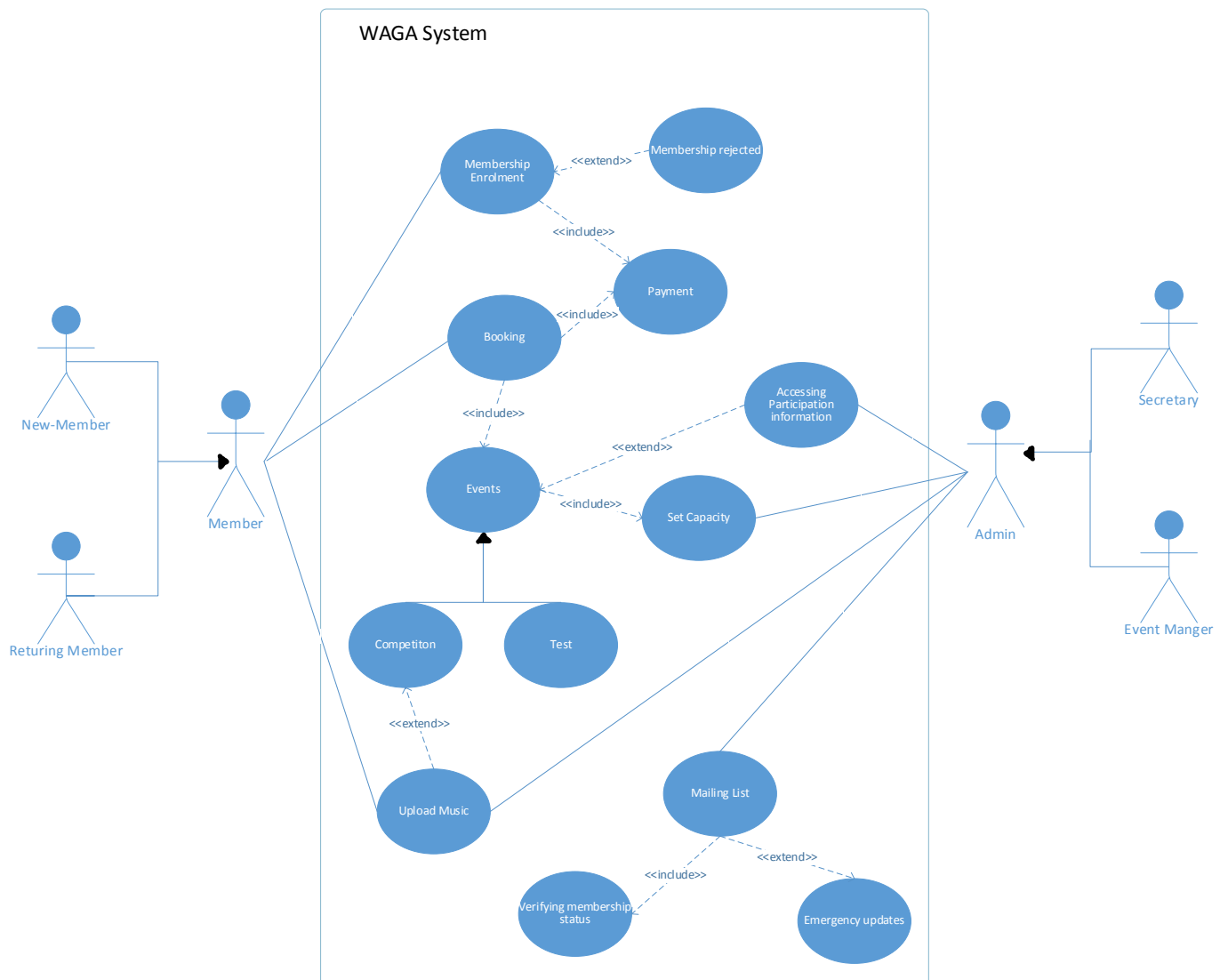
- 1.1.14 The system should always remain up to date.
- 1.1.15 The subscription of a membership, the cancellation of membership without giving notice
- 1.1.16 Auto updating a member's information after renewal.

4. ASSUMPTIONS

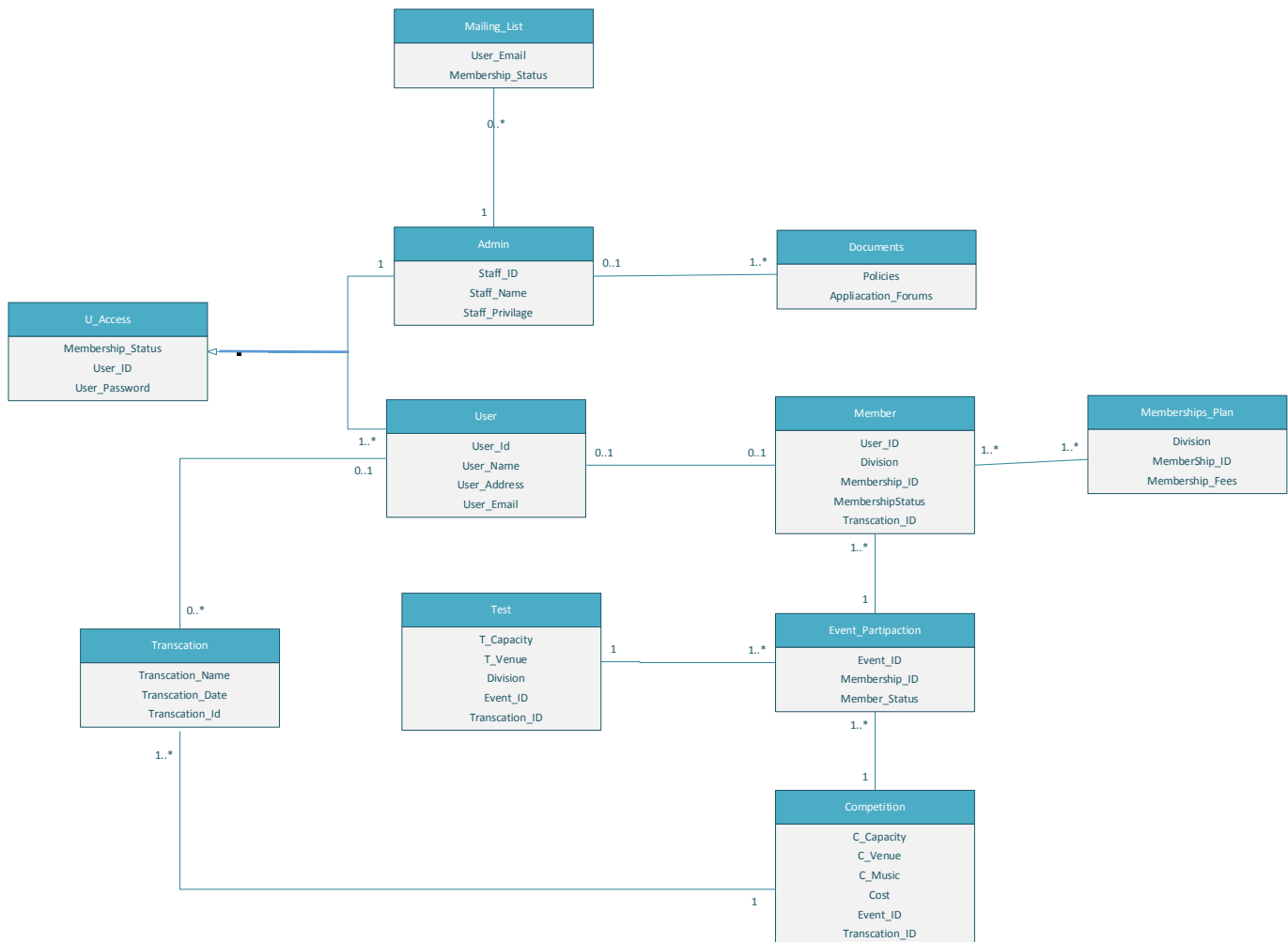
4.Funding to complete the cost of the project.

- 1.1.1. Resources needed to complete and undertake the project.
- 1.1.2. All equipment needed to be appropriate and in working condition.
- 1.1.3. The scope of the project will be sustainable throughout the project.

5. CASE DIAGRAM



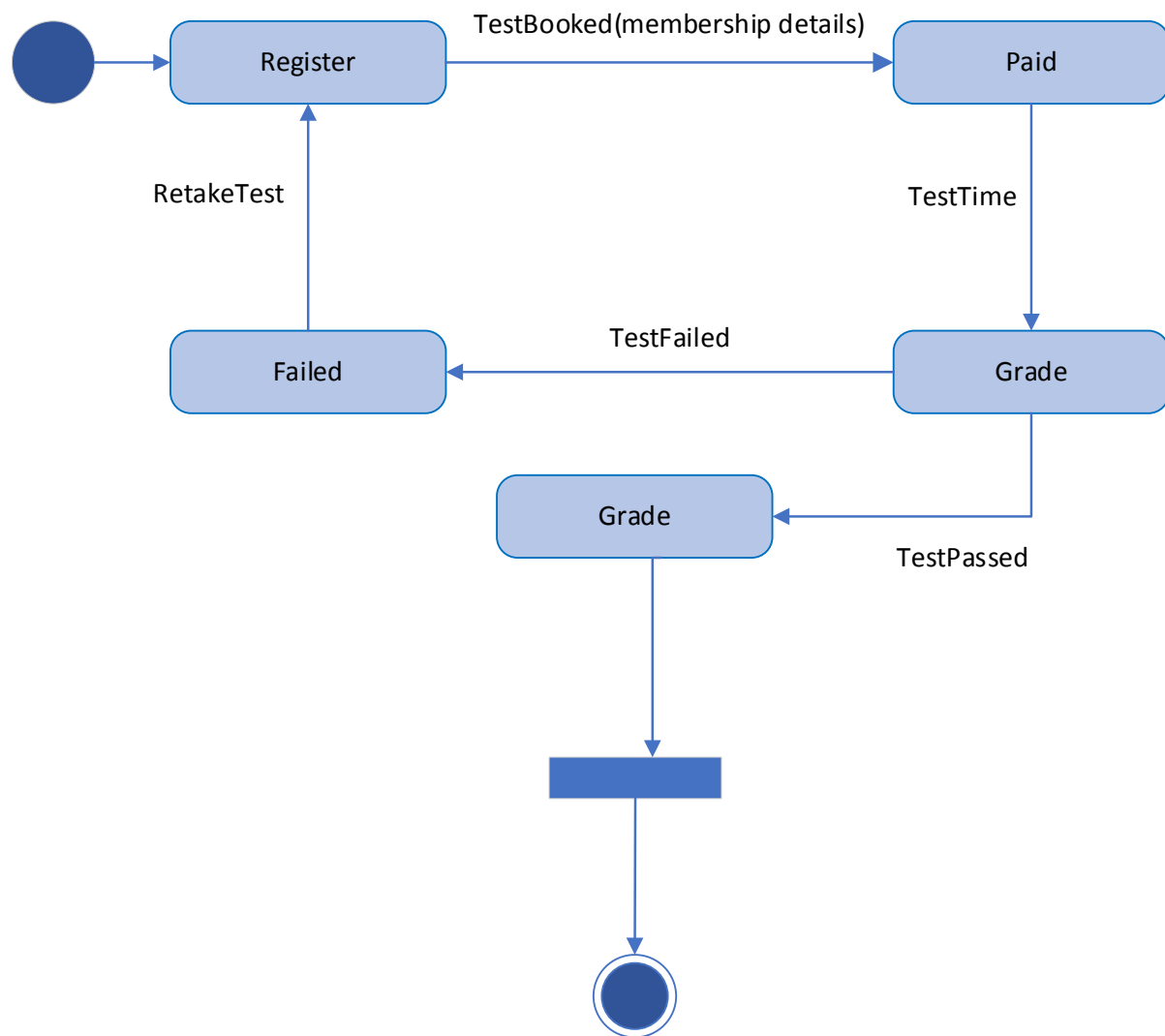
6. DOMAIN MODEL CLASS DIAGRAM



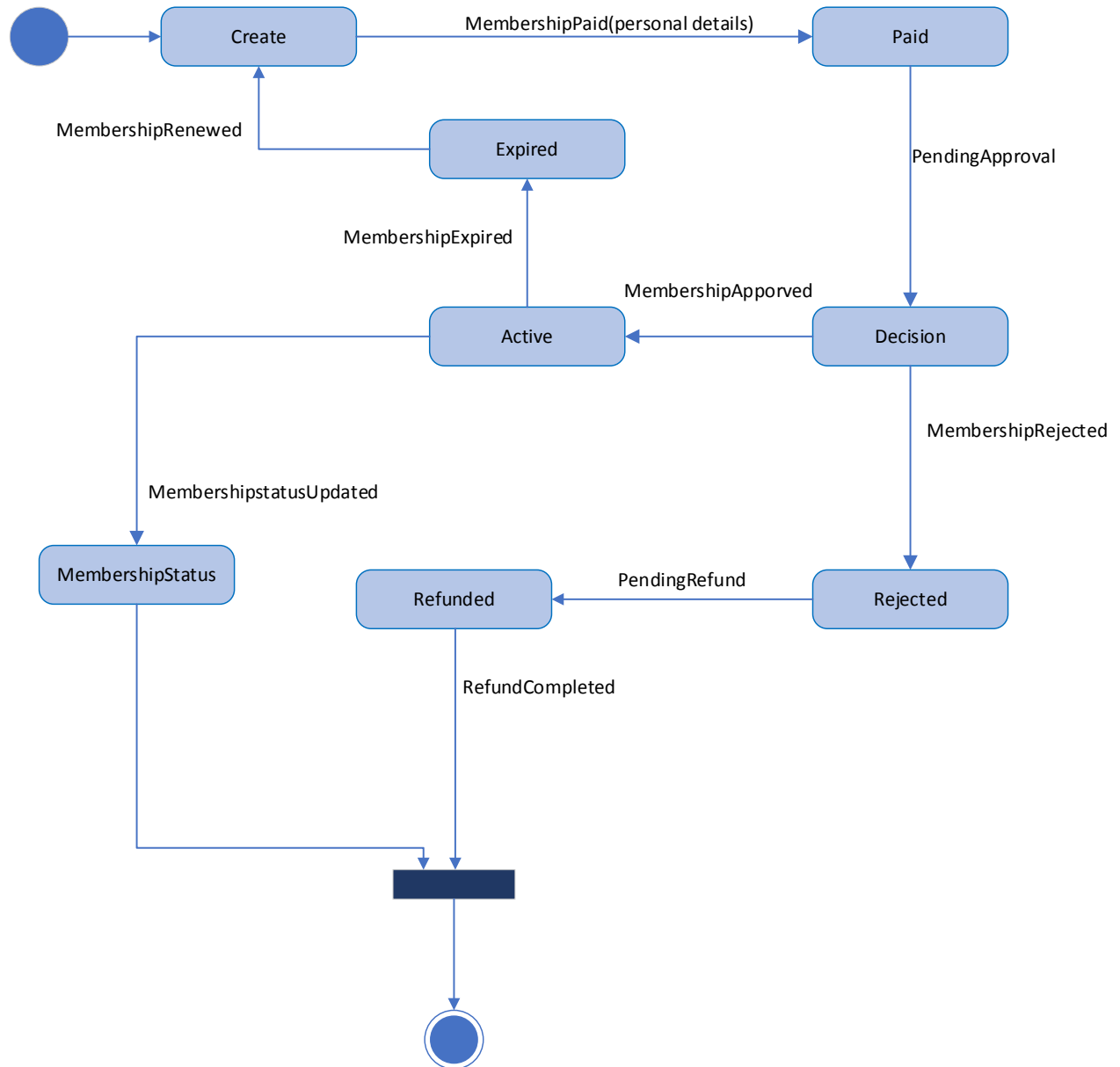
End of Assignment 01

7. State Machine Diagrams (SMD)

7.1 State Machine Diagram (SMD) 1 - TEST



7.2 State Machine Diagram (SMD) 2 – Membership enrolment



8. Use Case Description or Elaborated Use Case (UCE)

8.1 ELABORATION OF TEST.

Use case name:	Register Test	
Scenario:	Registering a participant for a Test to move up in the division.	
Triggering event:	A member wants to move to upper division.	
Brief description:	A member fills an online form to participate in a Test by entering details, system records it in relevant database, and update the member profile.	
Actors:	Member	
Related use cases:	Set Capacity Accessing participation information	
Pre-conditions:	Member must be an approved member of WAGA No passed the due date Member must be an active member Payment system must be available. Test must exist.	
Post-conditions:	Test seat has been allocated for the member from set capacity. Test details associated to the member profile. Payment must be verified.	
Flow of activities:	Actor	System
	<ol style="list-style-type: none"> 1. Member desire to move to upper division and fills the online form. 2. Member enters membership details. 3. Member chose payment options and enters details. 4. Member choose time slot. 	<ol style="list-style-type: none"> 1.1 System creates examinee. 1.2 System prompt for membership details. 2.1 System promotes for choose payment option. 3.1. System verifies the payment. 4.1 System allocates time slot and seat. 4.2 System associate member profile and examinee

Exception Conditions	1.1. Time slot is not available so select next available slot. 1.2. Member expired notify member and end use case. 1.3. Invalid personal entry, return to 1.2 1.4. Invalid payment/ failure to process payment, return to 2.1
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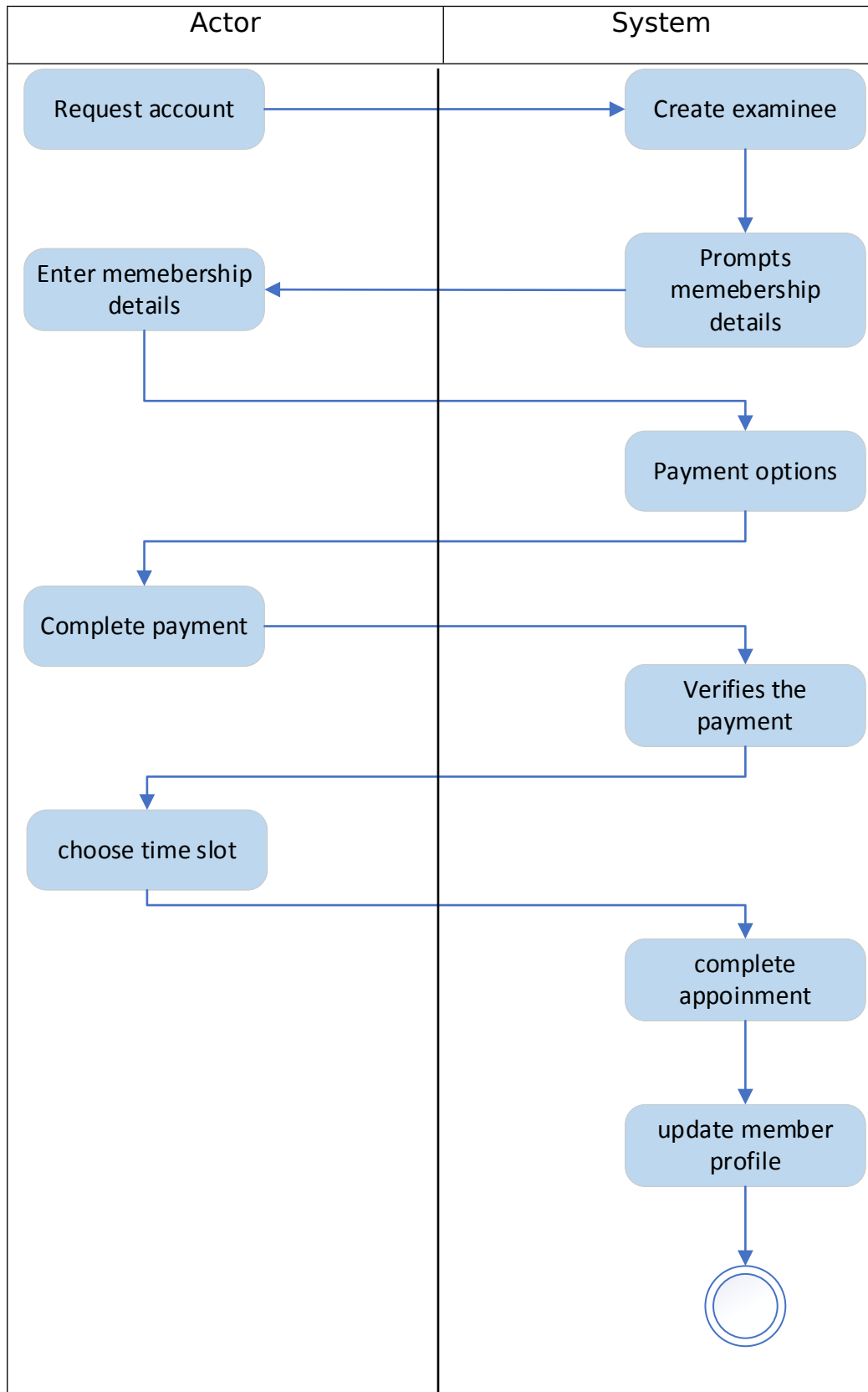
8.2 ELABORATION OF MEMBERSHIP ENROLEMENT

Use case name:	Create membership	
Triggering event:	A new member wants to join club or existing member renewing expired membership.	
Brief description:	An existing or new athlete wants to participate in events and requires membership. System promotes for personal details, payment detail to process membership subscription, and concludes when account is created with active membership.	
Actors:	Member, Admin	
Related use cases:	Payment Membership rejected	
Pre-conditions:	Payment verification system must be available. New member must agree to policies and conditions	
Post-conditions:	A new member account should be created and saved. The existing members account should be renewed. The subscription payment must be validated.	
Flow of activities:	Actor	System
	<ol style="list-style-type: none"> 1. Athlete desire to join/renew WAGA membership and fill personal details. 2. Member fills in personal details. 3. Member choose payment option and enter details. 4. Admin accept membership request. 	<ol style="list-style-type: none"> 1.1. System creates member account. 1.2. System promotes basic details 2.1. System prompts payment option. 3.1 System verifies the payment. 3.2 System sends membership request to Admin 4.1. System generates membership ID. 4.2. System creates member account. 4.3. System returns membership details
Exception Conditions	1.1. When membership rejected, refund payment and end use case.	

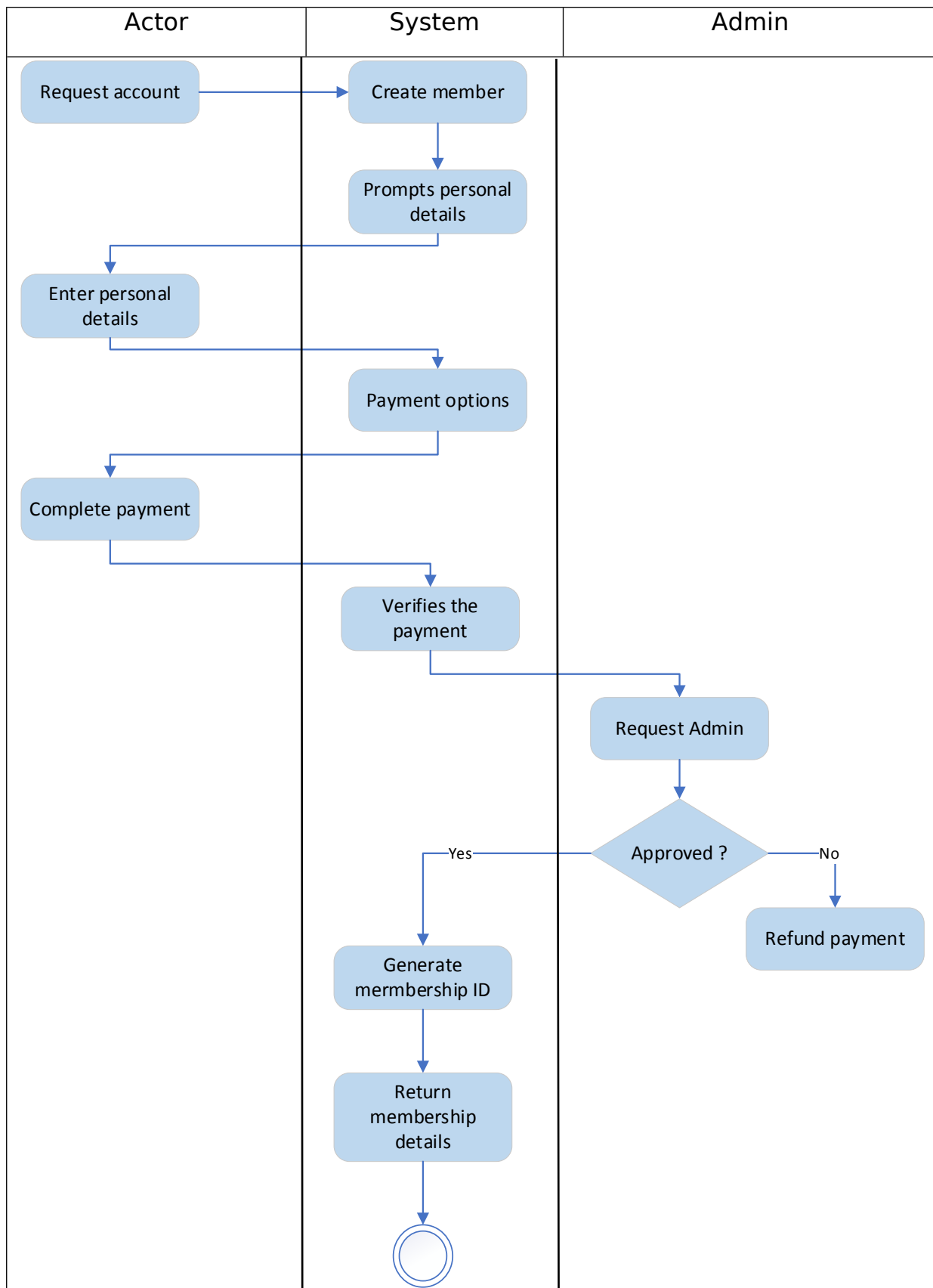
	1.2. Invalid payment/ failure to process payment, return to 2.2 1.3. Invalid/incomplete personal details, return to 1.2
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9. Activity Diagrams

9.1 Activity Diagram TEST

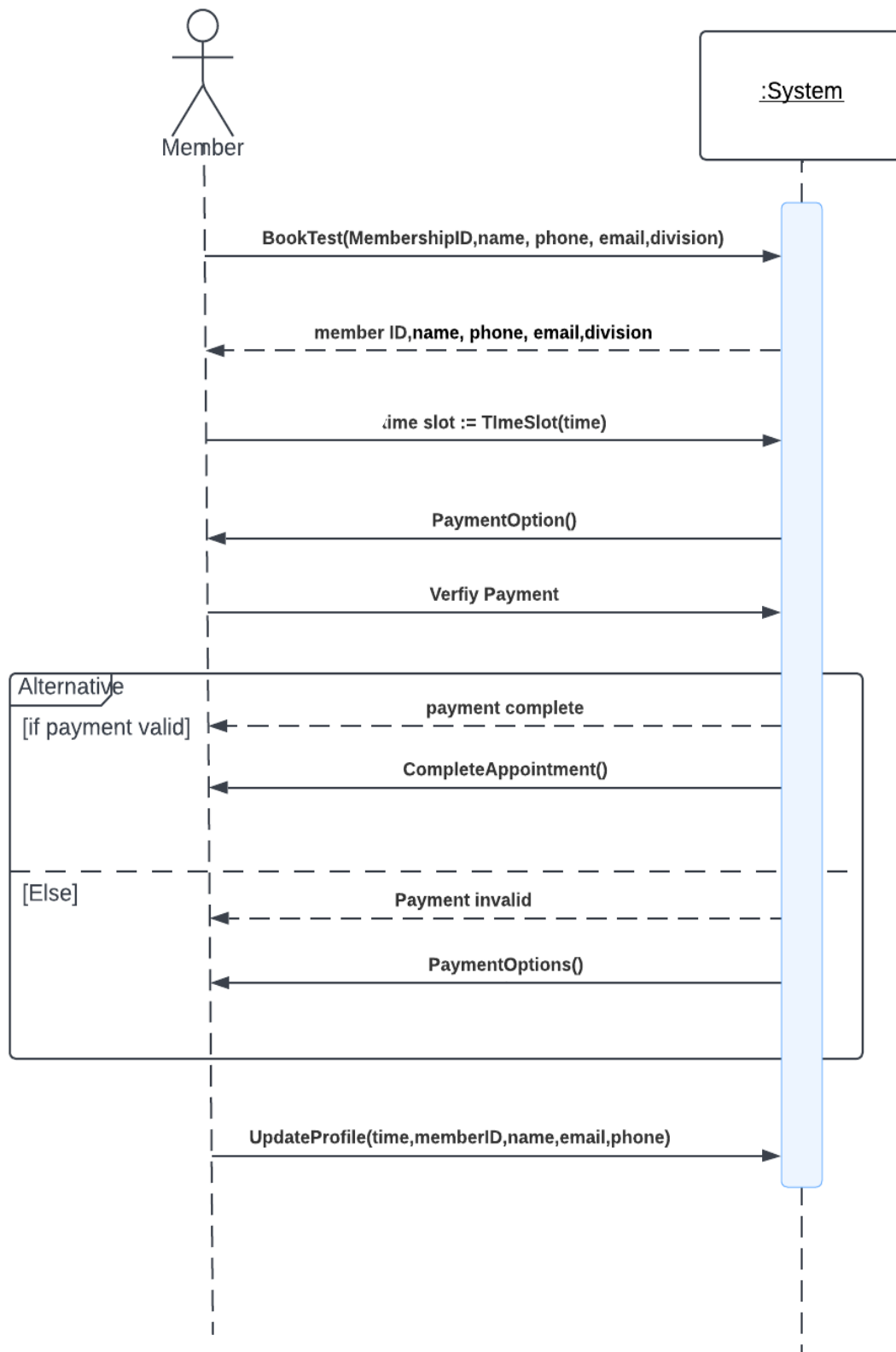


9.2 Activity Diagram Membership Enrolment

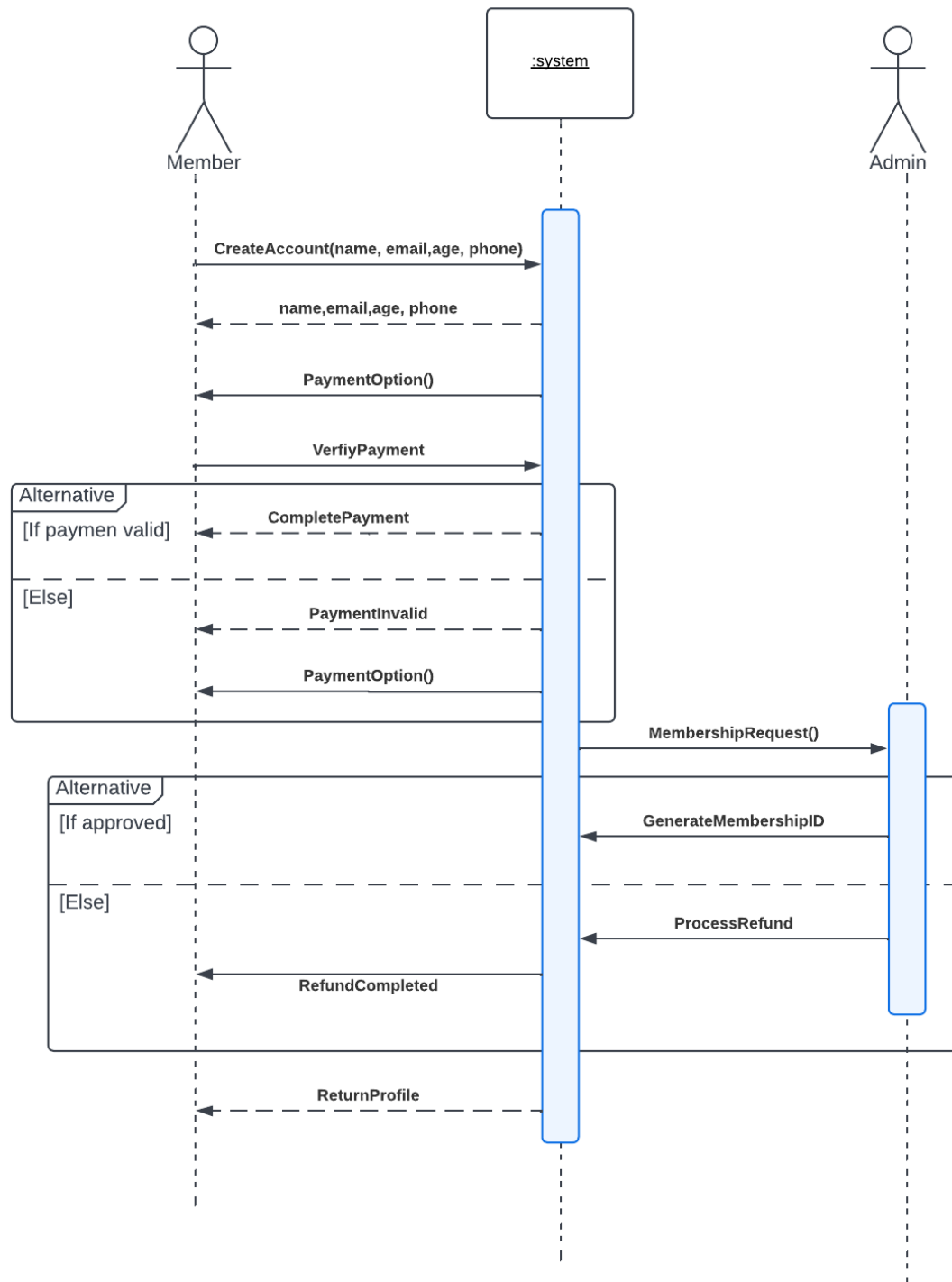


10. System Sequence Diagrams

10.1 Sequence Diagram - Test



10.2 Sequence Diagram- Membership enrolment



11. User Interface (GUI)

11.1 User Interface #1 - TEST

The screenshot displays the WAGA website's user interface within a Firefox browser window. The browser's address bar shows the URL <http://www.WAGA.com.au>. The website features a blue header with the 'WAGA' logo. Below the header, the 'Member Details' section contains several input fields: 'First Name*', 'Middle Name', 'Last Name*', 'Enter Email*', 'Membership ID*', and a 'Division' dropdown menu. There is also a 'Select Test date' section with 'Date', 'Month', and 'Year' inputs, and a 'Phone Number' field with a placeholder 'xxx xxxxxxxx*'. To the right, the 'Address' section includes 'Enter Street*', 'City / Suburb*', 'Post Code*', and a 'States' section with radio buttons for WA, SA, TAS, NT, NSW, ACT, VIC, and QLD. Below the 'Member Details' section, the 'Order' section shows 'Order No.: 15xx0' and 'Total Amount : xxxxx'. It includes a 'Credit Card/Debit Card' button and a 'Card Number*' input field. Below this are 'MM/YY*' and 'Expiry Date' inputs, a 'CVV*' input, and a 'Name on Card' input. A 'Pay' button is located at the bottom of the payment section.

11.2 User Interface #2 – MEMBERSHIP ENROLMENT

The screenshot displays the WAGA website's 'Create new account' interface. The main form is divided into two sections: 'Personal Details' and a payment/order summary. The 'Personal Details' section includes fields for First Name, Middle Name, Last Name, Date (Month, Year), Enter Phone, Enter Email, Enter Street, City/Suburb, and Post Code. It also features a 'States' selection with radio buttons for WA, SA, NSW, TAS, VIC, QLD, ACT, and NT. The payment/order summary section shows a date of 10/29/2022, a time of 10:10 AM, an order number of :xxx, and a total amount of :xxx. It includes a 'Credit Card / Debit card' button and a card payment form with fields for Card Number, MM/YY, Expiry Date, CVV, and Name on Card, followed by a 'Pay' button.

A modal window is open in the foreground, titled 'WAGA' with a close button (X). It contains the following elements:

- A 'New Account' section with a 'Member ID / Email' field and a 'Password' field.
- Checkboxes for 'Show password' (checked) and 'Keep me signed in.' (unchecked).
- A green 'Sign up' button.
- A link 'Already have an account'.
- A green 'Sign in' button.
- A link 'Forgot password?' at the bottom.

12. Data Dictionaries

12.1 Elementary Dictionary - TEST

Name	Type	Size	Format	Constraint
First name	X	50		
Middle name	X	30		Null /can be left
Last name	X	50		
Email	X	50		
Membership ID	N	10	9(10)	
Street name /no	X	35		
City /Suburb	X	25		
Postcode	X	4	9999	
States	X	1	R	WA, SA, ACT, VIC, NSW, QLD, TAS ,NT
Division	X	10	P	One of provided opt
Test date	D	10	dd/mm/yyyy	Can't be current date
Total amount	N	8	\$	
Card name	X	20		Null /can be left
Expiry date	D	10	dd/mm/yyyy	>=Current date
CVV number	N	4	9999	
Card number	X	16	9(16)	
Pay button	B	10		

12.2 Composite Dictionary – MEMBERSHIP ENROLMENT

Member-details-para= first-name + (middle-name) + last-name + street-name + city/suburb + postcode + phone +email+ membership-id + + select-test-date

Payment-para = order-no + total-amount + card-number + expiry-date + (name-on-card) + CVV-number

States = [WA | SA | ACT | VIC | NSW | QLD | TAS | NT]

Division = [under-18 | under-20 | under-21 | other]

Webpage = member-details-para + payment-para + pay-button

References