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41113 Software Development Studio

# Project Brief

## Pyrmont Action Website Upgrade

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# 1 Project Overview

## 1.1 The Client

Pyrmont Action is a not-for-profit incorporated community association that works to improve development in Pyrmont for the benefit of the community. It collaborates with the community, councils, and government to ensure the voices of locals are heard.

## 1.2 Problem Statement

Currently, Pyrmont Action does not have a functioning website that meets its needs. The organisation lacks a dedicated account management feature, making it difficult for both community members and administrators to navigate. In addition, there is no secure way for visitors to join as members and complete payment transactions. Another issue is that private, administrator-facing content is not adequately protected and has been exposed.

## 1.3 Project Goals and Objectives

The goal is to develop a polished and fully functional website for Pyrmont Action. This will be achieved by combining the two previously developed code bases and implementing additional features. The new platform will draw on the strengths of both code bases, providing a solid foundation for further development. The primary focus will be on account management, ensuring appropriate access controls for authorised accounts. Membership payments will be handled through the Stripe platform, as preferred by the client. Finally, additional public-facing features not included in the earlier code bases will be implemented to make the website more engaging and useful for the community.

## 1.4 Project Timeline

### 1.4.1 Sprint Planning

Sprint Number	Sprint Period	Milestones and Deliverables	Name of Features/Functions	Associated User Stories
0	25/09 – 08/09	<i>Milestone:</i> <ul style="list-style-type: none"><li>• Project Initiation</li></ul> <i>Deliverable:</i> <ul style="list-style-type: none"><li>• Meeting Time Schedule</li></ul>		
1	08/09 – 15/09	<i>Milestone:</i> <ul style="list-style-type: none"><li>• Agreeing with the actionable requirements</li><li>• Previous codebases running successfully</li></ul> <i>Deliverable:</i> <ul style="list-style-type: none"><li>• Project Brief</li></ul>		
2	15/09 – 29/09	<i>Milestone:</i> <ul style="list-style-type: none"><li>• Successful in merging the two code bases.</li></ul> <i>Deliverable:</i> <ul style="list-style-type: none"><li>• Database Setup</li><li>• User Authentication</li><li>• Stripe Integration</li></ul>	<ul style="list-style-type: none"><li>• Onboarding</li><li>• Account Management</li><li>• Meeting Minutes</li><li>• Payment Integration</li></ul>	<ul style="list-style-type: none"><li>• U101 to U105</li><li>• U201 to U211</li><li>• U301 to U306</li><li>• U401 to U406</li></ul>

		<ul style="list-style-type: none"> <li>• Document Uploading</li> <li>• Account CRUD</li> </ul>	
3	29/09 – 13/10	<p><i>Milestone:</i></p> <ul style="list-style-type: none"> <li>• Successful implementation of assigned features</li> <li>• Documentation</li> </ul> <p><i>Deliverable:</i></p> <ul style="list-style-type: none"> <li>• Editorial CRUD</li> <li>• Solution Architecture Documentation</li> <li>• Public-facing content</li> <li>• Private-facing content</li> </ul>	<ul style="list-style-type: none"> <li>• Editorial Dashboard</li> <li>• Event Calendar</li> <li>• Member List Viewer</li> </ul> <ul style="list-style-type: none"> <li>• U501 to U505</li> <li>• U601 to U606</li> <li>• U701 to U706</li> </ul>
4	13/10 – 27/10	<p><i>Milestone:</i></p> <ul style="list-style-type: none"> <li>• Complete all features</li> <li>• Finalise Testing</li> <li>• Documentation</li> </ul> <p><i>Deliverable:</i></p> <ul style="list-style-type: none"> <li>• Handover documentation</li> <li>• Acceptance Criteria Checklist</li> </ul>	<ul style="list-style-type: none"> <li>• Blog Submission and Approval</li> <li>• Contact Us Form Email Integration</li> </ul> <ul style="list-style-type: none"> <li>• U801 to U808</li> <li>• U901 to U903</li> </ul>

## 1.4.2 Communication and Collaboration Plan

### 1.4.2.1 Communication Goals

The primary goal of communication within the team is to ensure all members are aligned on the project's current status, upcoming tasks, and any challenges that may arise. Effective communication will help maintain productivity, accountability, and collaboration throughout the project lifecycle.

Communication with the client is equally important. Weekly updates will be provided to keep the client informed of progress, gather feedback, and ensure the project remains aligned with their expectations.

#### Communication Platforms:

- Team Communication:
  - Primary Platforms - Discord (for daily updates and quick discussions) and in-person meetings (for deeper collaboration and planning).
  - Other Platforms - Zoom or Microsoft Teams may be used if meetings are to be recorded.
- Client Communication:
  - Weekly meetings will be conducted via Zoom or Microsoft Teams, depending on client preference.
  - Meeting agendas and progress reports will be shared in advance to facilitate productive discussions and timely feedback.

### 1.4.2.2 Communication Plan

Student	Role	Contact	Communication Responsibility Frequency	Format/Channel	Notes
Massimo Fathulla	Team Leader/SCRUM Master	<a href="mailto:Massimo.E.Fathulla@student.uts.edu.au">Massimo.E.Fathulla@student.uts.edu.au</a>	Daily, weekly	Facilitates daily in-person Scrum meetings, provides weekly progress reports using a project management tool, and sends monthly high-level updates on timeline, budget and progress to the product owner via email. Additionally, it is responsible for	Primary point of contact for issue resolution and escalation.

				documentation and overall project management.	
Aaryan Mahajan	Frontend Developer	<a href="mailto:Aaryan.Mahajan@student.uts.edu.au">Aaryan.Mahajan@student.uts.edu.au</a>	Daily, Weekly	Attends stand-up meetings, client meetings and Scrum meetings, communicates with the client and backend developers, and designs wireframes for feedback.	Responsible for translating user needs into frontend functionality.
Anthony He	Software Architect / Backend Developer	<a href="mailto:Anthony.Z.He@student.uts.edu.au">Anthony.Z.He@student.uts.edu.au</a>	Daily, Weekly	Attends stand-up meetings, client meetings and Scrum meetings, assists in defining project requirements, and communicates with the client, team leader and frontend developer to determine software needs.	Provides technical guidance and backend solutions.
Henil Patel	Unit Tester / Quality Assurance	<a href="mailto:Henil.Patel@student.uts.edu.au">Henil.Patel@student.uts.edu.au</a>	Daily, Weekly	Attends stand-up meetings, client meetings and Scrum meetings, communicates with the client, frontend and backend developers, and provides regular quality assurance updates.	Ensures deliverables meet acceptance criteria before deployment.
Charbel Moubarak	Backend Developer	<a href="mailto:Charbel.Moubarak@student.uts.edu.au">Charbel.Moubarak@student.uts.edu.au</a>	Daily, Weekly	Attends stand-up meetings, client meetings and Scrum meetings, communicates with the client, team leader and other backend developers.	Supports backend tasks, bug fixes, and API integration.

#### 1.4.2.3 Collaboration Plan

##### Type SCRUM of SCRUM

When/Where/Participants	Held in person around the Scrum board for a 15-minute stand-up meeting with all team members.
Share	<ul style="list-style-type: none"> <li>Each person reports on tasks in progress, tasks completed, and tasks upcoming.</li> </ul>

		<ul style="list-style-type: none"> <li>• Problems are raised.</li> <li>• Requests for assistance are made if required.</li> </ul>
	<b>Type</b> When/Where/Participants Share	<b>Weekly Scrum/Standup Meeting</b> Conducted either online or in person for 15–30 minutes, attended by all team members. <ul style="list-style-type: none"> <li>• Each person reports on tasks in progress, tasks completed, and tasks upcoming.</li> <li>• Issues are flagged.</li> <li>• Requests for help are raised where necessary.</li> </ul>
	<b>Type</b> When/Where/Participants Share	<b>Weekly/Fortnightly Client Meeting</b> Held online or in person with the client and relevant team members, lasting 15–30 minutes. <ul style="list-style-type: none"> <li>• Present project progress and deliverables.</li> <li>• Confirm or clarify any new requirements.</li> </ul>
	<b>Type</b> When/Where/Participants Share	<b>Discord/Teams Channel</b> Open real-time communication and file sharing space, accessible to all team members. <ul style="list-style-type: none"> <li>• Burndown chart updates.</li> <li>• Project documentation.</li> <li>• General questions and discussions for team visibility.</li> </ul>
	<b>Type</b> When/Where/Participants Share	<b>Sprint Planning and Retrospective</b> At the start and end of each two-week sprint, held online or in person with all Developers, Quality Assurance, and the Product Owner. <ul style="list-style-type: none"> <li>• <b>Share two days in advance:</b> <ul style="list-style-type: none"> <li>◦ Agenda for meeting</li> <li>◦ Product backlog</li> <li>◦ QA report</li> <li>◦ Attendees needed for meeting (includes product owner)</li> <li>◦ Budget</li> </ul> </li> </ul>

- **Meeting format:**
  - Agenda review
  - Review product backlog
  - Questions/Discussions
  - Next steps review
- **Email/Message (immediately after meeting):**
  - Meeting notes to all attendees
  - Sprint goals

Type	Weekly/Monthly Emails
When/Where/Participants	Prepared by the team leader and sent to the product owner.
Share	<ul style="list-style-type: none"> <li>● Progress against the project plan.</li> <li>● Support required.</li> <li>● Issues or risks identified.</li> <li>● Updated timeline.</li> <li>● Upcoming activities.</li> </ul>

## 1.5 Quality/Success Criteria

### Functional Requirements

- New users can successfully register, pay the \$25 annual membership fee, and gain member access without errors.
- Role-based access is enforced: Community Members, Content Managers and Administrators only see the features relevant to their role.
- Administrators can upload and publish meeting minutes; members can securely view/download them.
- Administrators/Content Managers can add or update content (e.g., events, blogs) through the editorial dashboard.
- The “Contact Us” form reliably delivers enquiries to the designated email.

### Non-Functional Requirements

- The application loads key pages within three seconds under normal use.
- The web app is accessible on modern browsers (Chrome, Firefox, Safari, Edge) and mobile browsers.
- The system maintains at least 95% uptime during demonstration and evaluation.

### Testing & Reliability

- All core features pass unit and integration testing (e.g., onboarding flow, payments, CRUD operations).
- Stripe payment testing demonstrates consistent success in transactions.
- Quality assurance reports show no critical defects outstanding at handover.

### Usability & Client Satisfaction

- Users across all access levels can navigate the website without major issues (validated in user acceptance testing).
- The client confirms the website meets the agreed requirements and is suitable for ongoing use by Pyrmont Action.
- Documentation is sufficient for administrators to manage content and membership independently after handover.

## 1.6 Project Scope

### 1.6.1 In scope

Ref.	Item	Description
SC001	Web Application	Develop a responsive web application for the Pyrmont Action group.
SC002	Membership Payment	<ul style="list-style-type: none"><li>Allow users to pay a \$25 annual membership fee when joining.</li><li>Provide functionality for members to renew their membership before expiry.</li><li>Integrate the Stripe platform for secure payment processing.</li></ul>
SC003	Three Access Levels	<ul style="list-style-type: none"><li>Community Member<ul style="list-style-type: none"><li>Can download meeting minutes.</li><li>Can view their membership duration and payment status.</li></ul></li><li>Administrator<ul style="list-style-type: none"><li>Manage user accounts.</li><li>Publish meeting minutes.</li><li>Edit content with appropriate permissions.</li></ul></li><li>Content Managers<ul style="list-style-type: none"><li>Have permission to edit content only.</li><li>Do not have access to administrative functions.</li></ul></li></ul>
SC004	Editorial Dashboard	<ul style="list-style-type: none"><li>Administrators and Content Managers can edit existing public-facing content.</li><li>Public-facing web pages are listed in the dashboard.</li><li>Editors can select a page and edit items within it.</li><li>Create, Read, Update and Delete (CRUD) operations are available for all page items.</li></ul>
SC005	New public-facing content	<ul style="list-style-type: none"><li>Public blog submissions are enabled, with Administrators approving or rejecting posts.</li><li>An event calendar is visible to the public and editable by Administrators.</li><li>A simple email integration supports the Contact Us form, sending enquiries to the authorised email address.</li></ul>

## 1.6.2 Out of Scope

Ref.	Item	Description
OC001	Mobile Application	Building a standalone mobile app is excluded; the web app will be responsive instead.
OC002	Post-project Work	Any maintenance or enhancements beyond the project duration are excluded.
OC003	Marketing Email Tools	Bulk newsletters, advanced marketing automation or campaign tools are excluded; only Stripe receipts and basic admin/member notifications are included.

## 1.7 Assumptions

1. Each person within the team has the ability and willingness to complete the tasks assigned to them prior to the set deadlines
2. Team members and clients will be available for our weekly meetings
3. Scope is thoroughly discussed and agreed upon by both the team members and the client
4. The architecture chosen to use for all aspects of the project will be rational and stable for the entire project duration

## 1.8 Risks

**Schedule Issues:** As the project timeline is limited, issues may arise in regards to the scheduling and completion of work, leading to the team potentially falling behind our planned schedule.

**Scope Creep:** Extra features may be requested during the project lifecycle, impacting the projected timeline.

**Lack of Testing:** Throughout the project's lifecycle, if testing is not properly implemented, it can potentially lead to some serious issues later in the project.

## 1.9 Issues

**Late Start:** As we started this project later than would be normal for this subject, this has caused numerous issues to our development timeline. We missed certain crucial milestones in the early stages of the project and so have needed to catch up on them.

## 1.10 Constraints

**Time:** As the project timeline is based on a university semester, this limits the project duration.

**Busy Schedules:** All team members will be balancing this subject with their other subjects and commitments they have.

**Scope:** The scope will define the features that will be designed and implemented for the site.

**Resources:** The resources and framework that the client has access to, and

## 1.11 Dependencies

**Hosting and Domain Setup:** Client must confirm arrangements for website hosting and domain.

**MongoDB Atlas + Mongoose:** Required for cloud database and schema management.

**Stripe API (Checkout + Webhooks):** Dependency for secure payment processing and membership management.

**Nodemailer (dummy Gmail for development):** Dependency for sending admin/member email notifications.

**Testing Frameworks:** Playwright (End-to-End) and Mocha/Chai (Unit Testing) required for automated testing.

**Documentation & Version Control:** GitHub repository for source code collaboration; team must provide adequate project documentation for transparency.

**Client Communication:** Ongoing collaboration with the client to validate requirements and scope changes.

## 2 Requirements

### 2.1 Functional Requirements

Function /Feature/ Task	Priority	Difficulty	Complexity	Testing	Definition of Done	Resources
	<i>(Scale between 1-5, where 1 is the lowest and 5 is the highest)</i>			<i>Identify and describe how and when the product will be tested over the course of the project/semester.</i>	<i>Describe a set of conditions that allow your team to assess the product's completion for the project/semester.</i>	<i>List the required library, API, language, package, connected function(s), connected database etc.</i>
Community Member Onboarding	5	3	3	Unit test account creation, integration test full onboarding flow	A visitor can become a Community Member.	MongoDB Atlas, Mongoose, Node.js, Express, Mocha & Chai for unit testing
Account Management	5	3	3	Unit test CRUD actions, integration test role updates	User can log in/out, update details, deactivate account, and role changes propagate correctly	MongoDB Atlas, Mongoose, Mocha & Chai for unit testing, JWT and bcrypt
Membership Payment Integration	5	4	4	Simulate Stripe test payments, verify webhook receipts	Payment successfully processed, receipt emailed, membership marked as paid	Stripe API (Checkout + Webhooks), Node.js , Postman for API testing
Meeting Minute Access	4	2	2	Upload/download test, permission checks	An Administrator can upload and publish Meeting Minutes, and	MongoDB, HTML, Node.js

					Community Members can view them.	
Editorial Dashboard	4	4	4	CRUD content test, image upload test	A Content Manager or Administrator can make changes to the public content.	Vue, Node.js, MongoDB
Member List Viewer	4	2	2	Query test, filter test	Administrators can view details of all members on the list.	MongoDB, Mongoose
Event Calendar	3	3	3	CRUD event test, calendar UI test	Administrators can create events visible to Visitors.	Vue, MongoDB, Mocha & Chai for Unit testing, Apache JMeter
Blog Submission and Approval	3	3	3	Submission, approval/rejection, publish visibility tests	A Visitor can submit and an Administrator can approve.	MongoDB, Vue, Node.js, Express, Postman for API testing
Contact Us Form Email Integration	2	2	2	Form validation test, email send test	The authorised email receives the Visitor's enquiry.	Nodemailer (Node.js module for sending emails), Mocha & Chai for Unit testing

## 2.2 Non-Functional Requirements

Function /Feature/ Task	Priority	Difficulty	Complexity	Testing	Definition of Done	Resources
<i>(Scale between 1-5, where 1 is the lowest and 5 is the highest)</i>				<i>Identify and describe how and when the product will be tested over the course of the project/semester.</i>	<i>Describe a set of conditions that allow your team to assess the product's completion for the project/semester.</i>	<i>List the required library, API, language, package, connected function(s), connected database etc.</i>
Performance	5	3	3	Load testing (50 concurrent users), response time monitoring	System responds under 2 seconds with 50 concurrent users	Apache JMeter, Chrome DevTools
Security	5	4	4	Penetration testing, JWT expiry checks	All pages behind login require a valid JWT, passwords are hashed, and sensitive data is encrypted	bcrypt, JWT, Helmet.js, TLS
Usability	4	2	2	User acceptance tests, UI/UX review	≥80% of users complete key tasks without guidance and report ease of use	Figma (prototyping), user test participants,
Accessibility	3	2	2	Screen reader test, WCAG checklist	All pages meet WCAG 2.1 AA guidelines	axe DevTools, Lighthouse
Backup and Recovery	2	2	2	Database backup/restore simulation	Weekly backups run successfully, recovery completed within 2 hours	MongoDB Atlas backups

## 2.3 User Stories/Narratives

Note:

**Priority:** H = High, M = Medium, L = Low

**Estimate:** 1 is the lowest effort, 10 is the highest effort

### 2.3.1. Community Member Onboarding

ID	User Story	Priority	Estimate
U101	As a Visitor, I want to locate and press the “Join” button so that I can start the onboarding process to become a Community Member.	H	4
U102	As a Visitor, I want to provide my personal information when becoming a member, so that I can progress in the onboarding process.	H	6
U103	As a Visitor, I want to securely create a password so that I can access my account in the future.	H	5
U104	As a Visitor, I want to provide my payment details so that I can complete the membership contribution during the onboarding process.	H	6
U105	As a Visitor, I want to be redirected to the Login page so that I can immediately access my account after onboarding.	L	3

### 2.3.2. Account Management

ID	User Story	Priority	Estimate
U201	As an Account Holder, I want to locate and press the “Login” button, so that I can access my account.	H	4
U202	As an Account Holder, I want to log in using my email and password so that I can access the correct account.	H	6
U203	As an Account Holder, I want my password to be masked so that it is not displayed when in public.	M	1
U204	As an Account Holder, I want to update my personal details so that my account information stays accurate.	M	4
U205	As an Account Holder, I want to deactivate my account so that all my data is removed from the system.	M	2
U206	As an Account Holder, I want to change my password so that I can strengthen the security of my account.	M	2
U207	As an Account Holder, I want to update my email address so that notifications are forwarded to my preferred communication method.	M	2
U208	As an Administrator, I want to create a Content Manager account so that they can edit the public-facing content.	H	5
U209	As an Administrator, I want to create an Administrator account so that they can access everything on the system.	H	5

ID	User Story	Priority	Estimate
U210	As an Administrator, I want to deactivate an Account Holder so that they lose system access and permissions.	M	2
U211	As an Administrator, I want to change the role of an Account Holder so that permissions are enforced correctly.	L	4

### 2.3.3. Membership Payment Integration

ID	User Story	Priority	Estimate
U301	As a Visitor or Community Member, I want to be redirected to the payment platform (Stripe) so that I can process my payment.	H	7
U302	As a Visitor, I want to use the Stripe payment platform, so that I can securely process my payment with Pyrmont Action.	H	8
U303	As the Treasurer, I want to be sent email notifications when a payment is processed so that I can update financial records.	H	6
U304	As a new or current Community Member, I want to receive an automatic receipt by email after payment so that I have proof of membership.	H	6
U305	As a Community Member, I want to be notified when my membership is about to expire so that I can renew on time.	M	4
U306	As a Community Member, I want my membership status and renewal date shown so that I am aware when to renew it.	L	3

### 2.3.4. Meeting Minute Access

ID	User Story	Priority	Estimate
U401	As an Administrator, I want to upload Meeting Minutes as a PDF on a private-facing webpage so that members can access them securely.	H	6
U402	As an Administrator, I want to control when Meeting Minutes are published so that only finalised documents are visible to members.	H	4
U403	As a Community Member, I want to view published Meeting Minutes so that I can stay informed about decisions and updates.	H	3
U404	As an Administrator, I want to edit or replace uploaded Meeting Minutes so that I can correct errors or update content.	M	5
U405	As a Community Member, I want to receive a notification when new Meeting Minutes are published so that I can stay updated.	M	4
U406	music	L	5

### 2.3.5. Editorial Dashboard

ID	User Story	Priority	Estimate
U501	As an Administrator or Content Manager, I want to access the editorial dashboard so that I can manage public-facing webpages in one place.	H	7
U502	As an Administrator or Content Manager, I want to see a list of all editable webpages so that I can quickly navigate to the one I need.	H	5
U503	As an Administrator or Content Manager, I want to select a webpage from the dashboard so that I can access editing features for it.	H	3
U504	As an Administrator or Content Manager, I want to upload images and text to a webpage so that I can enrich the content.	M	6
U505	As an Administrator or Content Manager, I want to remove outdated items from a webpage so that the content stays relevant.	M	4

### 2.3.6. Member List Viewer

ID	User Story	Priority	Estimate
U601	As an Administrator, I want to view a list of all registered Community Members so that I can monitor membership.	M	7
U602	As an Administrator, I want each member's full name to be displayed so that I can identify individuals.	M	2
U603	As an Administrator, I want each member's email address to be shown so that I can contact them if needed.	M	2
U604	As an Administrator, I want to see whether a member is active or inactive so that I can track renewals.	M	3
U605	As an Administrator, I want to filter the list by active/inactive status so that I can manage renewals efficiently.	L	6
U606	As an Administrator, I want to search for a member by name or email so that I can locate specific records.	L	6

### 2.3.7. Event Calendar

ID	User Story	Priority	Estimate
U701	As an Administrator, I want to add new events to the Event Calendar so that the community can stay informed.	H	6
U702	As a Visitor, I want to view upcoming events on the Event Calendar so that I can participate in community activities.	H	4
U703	As an Administrator, I want to include the event name, date, location, and description so that all relevant details are visible.	H	6
U704	As an Administrator, I want to edit event details after posting so that I can correct or update information.	M	7
U705	As an Administrator, I want to delete past or cancelled events so that the calendar stays clean and accurate.	M	5
U706	As a Visitor, I want to click on an event to see full details so that I can decide whether to attend.	L	4

### 2.3.8. Blog Submission and Approval

ID	User Story	Priority	Estimate
U801	As a Visitor, I want to write and submit blog content so that I can express my views to the community.	M	5
U802	As a Visitor, I want to draft a blog post anonymously so that I can share my thoughts without revealing my identity.	M	5
U803	As a Visitor, I want to draft a blog post with my name so that I can be credited for my contribution.	M	5
U804	As a Visitor, I want to be prompted to review my draft before submitting it, so that I can fix grammatical errors and improve clarity.	M	5
U805	As an Administrator, I want to view all submitted blog drafts so that I can manage approvals.	H	7
U806	As an Administrator, I want to reject inappropriate blog posts so that the site remains respectful and safe.	H	7
U807	As an Administrator, I want to edit blog posts before publishing so that I can fix formatting or minor issues.	L	7
U808	As a Visitor, I want to view published blog posts so that I can read community contributions.	H	6

### 2.3.9. Contact Us Form Email Integration

ID	User Story	Priority	Estimate
U901	As a Visitor, I want to submit a message through the contact form so that I can reach Pyrmont Action.	M	3
U902	As an Enquiry Email Holder, I want to receive the Visitor's message, name, email address, and subject line via email so that I can respond appropriately.	L	3
U903	As an Enquiry Email Holder, I want the contact form to be configured to send emails to a specific email address so that enquiries reach the correct recipient.	L	3

## 2.4 User Narratives

### 2.4.1. Account Management

Use Case ID	UC206
User Story	As an Account Holder, I want to change my password so that I can strengthen the security of my account.
Goal	The Account Holder updates their password to a more secure one.
Priority	Medium
Actors	Primary Actor: Account Holder Secondary Actors: Database
Pre-conditions	The Account Holder is logged in.
Post-conditions	Account details are updated in the database.
Trigger	The Account Holder selects "My Account" from the navigation bar. The Account Holder initiates a password change.
Main Flow	<ol style="list-style-type: none"> <li>1. The Account Holder presses the login button.</li> <li>2. They enter their account credentials and log in. If the email or password is wrong, refer to <b>Alternate Flow 1</b>.</li> <li>3. They navigate to their account page and view their account management option.</li> <li>4. They select "change password" and enter their current password with their new password. If any of the old passwords are wrong, refer to <b>Alternate Flow 2</b>.</li> <li>5. They click "confirm".</li> <li>6. They click Save.</li> <li>7. The system validates and stores the updates.</li> <li>8. The system confirms success.</li> <li>9. The use case ends.</li> </ol>
Exceptions	E1. Invalid field inputs (e.g. weak password, duplicate email). E2. Session timeout during editing.
Includes	UC201: Login from the front page UC202: Log in with account credentials
Supporting Information	All personal data must comply with the organisation's privacy policy.
Non-functional Requirements	Performance: Average update < 2 seconds. Security: Passwords are masked when logging in.

<b>Alternate Flow 1</b>	"Wrong Password"
<b>Trigger</b>	The Account Holder used the wrong password to log in.
<b>Step</b>	<ol style="list-style-type: none"> <li>1. The login webpage will display an error message.</li> <li>2. The Account Holder enters their password again.</li> <li>3. Re-join at Step 2 in the Main Flow.</li> </ol>
<b>Alt Flow</b>	N/A
<b>Post conditions</b>	The Account Holder can successfully log in.
<b>Exceptions</b>	

<b>Alternate Flow 2</b>	"Incorrect current password"
<b>Trigger</b>	The Account Holder entered the wrong current password
<b>Step</b>	<ol style="list-style-type: none"> <li>1. The webpage will display an error message.</li> <li>2. The Account Holder enters their password again.</li> <li>3. Re-join at Step 4 in the Main Flow.</li> </ol>
<b>Alt Flow</b>	N/A
<b>Post conditions</b>	The Account Holder can successfully change their password.
<b>Exceptions</b>	

#### 2.4.2. Membership Payment Integration

Use Case ID	UC303
User Story	As the Treasurer, I want to be sent email notifications when a payment is processed so that I can update financial records.
Goal	The Treasurer is emailed the receipt of a new membership payment.
Priority	High
Actors	Primary Actor: Treasure Secondary Actors: Stripe API, Visitor
Pre-conditions	<ul style="list-style-type: none"> <li>- The Visitor is onboarding to become a Community Member.</li> <li>- The Stripe payment system is active.</li> </ul>
Post-conditions	<ul style="list-style-type: none"> <li>- Payment is processed and recorded.</li> <li>- A receipt is emailed to the Treasurer.</li> <li>- A receipt is emailed to the Community Member.</li> </ul>
Trigger	The Community Member processes payment transactions for membership.
Main Flow	<ol style="list-style-type: none"> <li>1. The Community Member clicks the add payment option.</li> <li>2. The system redirects to the Stripe checkout page.</li> <li>3. The Member enters payment details and confirms. Refer to <b>Alternate Flow 1</b>.</li> <li>4. Stripe processes the payment and returns success.</li> <li>5. The system updates the membership status.</li> <li>6. The system emails a receipt.</li> <li>7. The use case ends.</li> </ol>
Exceptions	E1. Card declined or payment error. E2. Webhook confirmation delayed.
Includes	U302 - Membership Payment U104 - Onboarding Payment
Supporting Information	The payment must meet PCI DSS security standards.
Non-functional Requirements	Performance: End-to-end < 3 seconds after Stripe confirmation.

<b>Alternate Flow 1</b>	"Card Declined"
<b>Trigger</b>	The Stripe platform denies the card of the owner.

<b>Step</b>	<ol style="list-style-type: none"> <li>1. The system shows a “pending” banner and a retry status in the background</li> <li>2. When the webhook arrives, the system updates the membership and emails the receipt.</li> <li>3. The payment is recorded correctly</li> <li>4. Re-join at Step 3 in the Main Flow.</li> </ol>
<b>Alt Flow</b>	N/A
<b>Post conditions</b>	The payment is recorded correctly.
<b>Exceptions</b>	E1. Step 2 – Webhook never arrives → flagged for manual review.

#### 2.4.3. Editorial Dashboard

Use Case ID	UC501
User Story	As an Administrator or Content Manager, I want to edit pages so that content stays current.
Goal	The authenticated User can edit and publish content to the public-facing side.
Priority	High
Actors	Primary Actor: Administrator or Content Manager Secondary Actors: Database, Web server
Pre-conditions	The Administrator/Content Manager is logged in.
Post-conditions	The changes are saved and appear live on the website.
Trigger	The user selects a webpage from the editorial dashboard.
Main Flow	<ol style="list-style-type: none"> <li>1. The user opens the editorial dashboard.</li> <li>2. The user selects a webpage tile. <b>Refer to Alternate Flow 1</b></li> <li>3. The system shows the editing interface.</li> <li>4. The user updates text, images, or layout.</li> <li>5. The user clicks Publish. <b>Refer to Alternate Flow 2</b></li> <li>6. The system updates the live content.</li> <li>7. The use case ends.</li> </ol>
Exceptions	E1. Invalid image file format. E2. Internet connection lost during save.
Includes	UC504: Upload Content
Supporting Information	Version history should be stored for all edits.
Non-functional Requirements	Performance: Update reflects within 2 seconds. Maintainability: All changes are logged with the editor's name and time.

<b>Alternate Flow 1</b>	“Edit Conflict”
<b>Trigger</b>	Two instances of editing operations on the same page simultaneously.
<b>Step</b>	<ol style="list-style-type: none"> <li>1. The system detects a conflict and blocks the second save.</li> <li>2. The system notifies the second attempt to enter the editing page.</li> <li>3. The second attempt is denied.</li> <li>4. Re-join at Step 3 in the Main Flow.</li> </ol>
<b>Alt Flow</b>	
<b>Post conditions</b>	The first instance of editing is not interfered with.
<b>Exceptions</b>	E1. Step 3 – Conflict detection fails and overwrites changes

<b>Alternate Flow 1</b>	“Save as Draft”
<b>Trigger</b>	The Editor chooses to save without publishing.
<b>Step</b>	<ol style="list-style-type: none"> <li>1. The Editor leaves the webpage.</li> </ol>

	<ol style="list-style-type: none"> <li>2. The content is stored as a draft on the dashboard, public to all Editors.</li> <li>3. The draft is shown as an item with a special tag in the editable items list.</li> <li>4. The user can later publish it.</li> <li>5. Re-join at Step 5 in the Main Flow.</li> </ol>
<b>Alt Flow</b>	
<b>Post conditions</b>	The content is not visible publicly.
<b>Exceptions</b>	E1. Step 1 – Draft is lost due to a browser crash.

## 2.5 User Story Map

Onboarding & Accounts		Payments		Community Content		Engagement	
HIGH	<b>U101</b> As a Visitor, I want to locate and press the "Join" button so that I can start the onboarding process to become a Community Member. <b>Priority:</b> H <b>Estimate:</b> 4	<b>U102</b> As a Visitor, I want to provide my personal information when becoming a member, so that I can progress in the onboarding process. <b>Priority:</b> H <b>Estimate:</b> 6	<b>U301</b> As a Visitor or Community Member, I want to be redirected to the payment platform (Stripe) so that I can process my payment. <b>Priority:</b> H <b>Estimate:</b> 7	<b>U401</b> As an Administrator, I want to upload Meeting Minutes as a PDF on a private-facing webpage so that members can access them securely. <b>Priority:</b> H <b>Estimate:</b> 6	<b>U402</b> As an Administrator, I want to control when Meeting Minutes are published so that only finalised documents are visible to members. <b>Priority:</b> H <b>Estimate:</b> 4	<b>U701</b> As an Administrator, I want to add new events to the Event Calendar so that the community can stay informed. <b>Priority:</b> H <b>Estimate:</b> 6	<b>U702</b> As a Visitor, I want to view upcoming events on the Event Calendar so that I can participate in community activities. <b>Priority:</b> H <b>Estimate:</b> 4
	<b>U104</b> As a Visitor, I want to provide my payment details so that I can complete the membership contribution during the onboarding process. <b>Priority:</b> H <b>Estimate:</b> 6		<b>U303</b> As the Treasurer, I want to be sent email notifications when a payment is processed so that I can update financial records. <b>Priority:</b> H <b>Estimate:</b> 6	<b>U501</b> As an Administrator or Content Manager, I want to access the editorial dashboard so that I can manage public-facing webpages in one place. <b>Priority:</b> H <b>Estimate:</b> 7		<b>U805</b> As an Administrator, I want to view all submitted blog drafts so that I can manage approvals. <b>Priority:</b> H <b>Estimate:</b> 7	
	<b>U206</b> As an Account Holder, I want to update my personal details so that my account information stays accurate. <b>Priority:</b> M <b>Estimate:</b> 2	<b>U204</b> As an Account Holder, I want to update my personal details so that my account information stays accurate. <b>Priority:</b> M <b>Estimate:</b> 4	<b>U305</b> As a Community Member, I want to be notified when my membership is about to expire so that I can renew on time. <b>Priority:</b> M <b>Estimate:</b> 4	<b>U504</b> As an Administrator or Content Manager, I want to upload images and text to a webpage so that I can enrich the content. <b>Priority:</b> M <b>Estimate:</b> 6	<b>U505</b> As an Administrator or Content Manager, I want to remove outdated items from a webpage so that the content stays relevant. <b>Priority:</b> M <b>Estimate:</b> 4	<b>U704</b> As an Administrator, I want to edit event details after posting so that I can correct or update information. <b>Priority:</b> M <b>Estimate:</b> 7	<b>U705</b> As an Administrator, I want to delete past or cancelled events so that the calendar stays clean and accurate. <b>Priority:</b> M <b>Estimate:</b> 5
	<b>U601</b> As an Administrator, I want to view a list of all registered Community Members so that I can monitor membership. <b>Priority:</b> M <b>Estimate:</b> 7			<b>U404</b> As an Administrator, I want to edit or replace uploaded Meeting Minutes so that I can correct errors or update content. <b>Priority:</b> M <b>Estimate:</b> 5	<b>U405</b> As a Community Member, I want to receive a notification when new Meeting Minutes are published so that I can stay updated. <b>Priority:</b> M <b>Estimate:</b> 4	<b>U801</b> As a Visitor, I want to submit blog posts anonymously or named so that I can contribute to the community. <b>Priority:</b> M <b>Estimate:</b> 5	<b>U901</b> As a Visitor, I want to submit a message through the contact form so that I can reach Pyrmont Action. <b>Priority:</b> M <b>Estimate:</b> 3
	<b>U210</b> As an Administrator, I want to deactivate an Account Holder so that they lose system access and permissions. <b>Priority:</b> L <b>Estimate:</b> 2		<b>U306</b> As a Community Member, I want my membership status and renewal date to be shown so that I can track my membership. <b>Priority:</b> L <b>Estimate:</b> 4	<b>U406</b> As an Administrator, I want to organise Meeting Minutes by date so that members can browse them easily <b>Priority:</b> L <b>Estimate:</b> 4		<b>U707</b> As a Visitor, I want to see a calendar view and a list view so that I can choose how to browse events. <b>Priority:</b> L <b>Estimate:</b> 5	<b>U903</b> As a Visitor, I want to submit a message through the contact form so that I can reach Pyrmont Action. <b>Priority:</b> L <b>Estimate:</b> 3

PRIORITY

LOW

Most Important

## 2.6 Other notes

## 3 Sign Off

### 3.1 Signature of Team Members:

Name: Henil Patel	Signature: <u>H.P.</u>
Name: Anthony He	Signature: <u>A.H.</u>
Name: Aaryan Mahajan	Signature: <u>A.M.</u>
Name: Massimo Futhalla	Signature: <u>M.F.</u>
Name: Charbel Moubarak	Signature: <u>C.M.</u>

### 3.2 Signature of Client:

Name: _____	Signature: _____
Name: _____	Signature: _____
Name: _____	Signature: _____