

Scrum Product Backlog

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Cards – User Stories

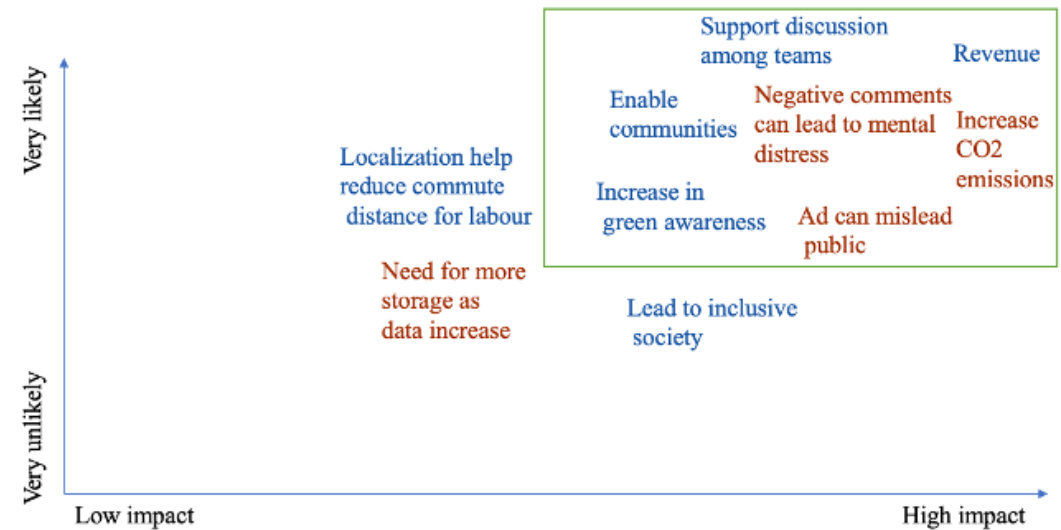
As a <user role> I want <goal> so that <benefit>	
	Owner
As a user, I want to create an account to access the platform's features.	Ben
As a user, I want to verify my email after registration for security.	Ben
As a service seeker, I want to post a task with details like title, description, location, and budget.	Ben
As a service seeker, I want to categorize my task for easier browsing.	Ben
As a service provider, I want to browse available tasks by category, location, and budget.	Ben
As a service provider, I want to filter tasks to find relevant ones quickly.	Ben
As a service seeker, I want to book a service provider for my posted task.	Ben
As a service seeker, I want to accept or decline task requests.	Ben
As a service provider, I want to securely pay for the task through the platform.	Ben
As a service provider, I want to form a team for large tasks through the platform to complete task on time.	Ben

SusAF Impacts Documentation

All Sustainability Impacts

Social	Individual	Environmental	Economic	Technical
Data can influence consumer choices	Service providers gets hired	CO2 emissions increase	Ad can mislead public	Ad data manipulation
Team rating can cause disagreement	Mental distress for service providers due to negative comments	More demand for energy		Need for more storage as data increase
Support discussion among teams		Support green awareness	Profit for service providers	Ease of use to hire labour
Enable communities among service providers		Localization help reduce commute distance	Reduced cost for service seekers	Accessibility for all users
Lead to inclusive society			Advert for revenue Company growth	Data gathering to improve system

Prioritize – Likelihood and Level of Impacts



SusAF Impacts Documentation

High Impact and Very Likely

1. **Enable communities** (Social) – Labour Hire connects individuals, fostering community engagement.
2. **Increase green awareness** (Environmental) – Local services can reduce long-distance travel, promoting environmental consciousness.
3. **Revenue generation** (Economic) – Positive economic impacts for service providers and the platform itself.
4. **Negative comments lead to mental distress** (Individual) – High likelihood of negative interactions affecting mental well-being.
5. **Increase in CO2 emissions** (Environmental) – Frequent travel for service providers could lead to higher emissions.

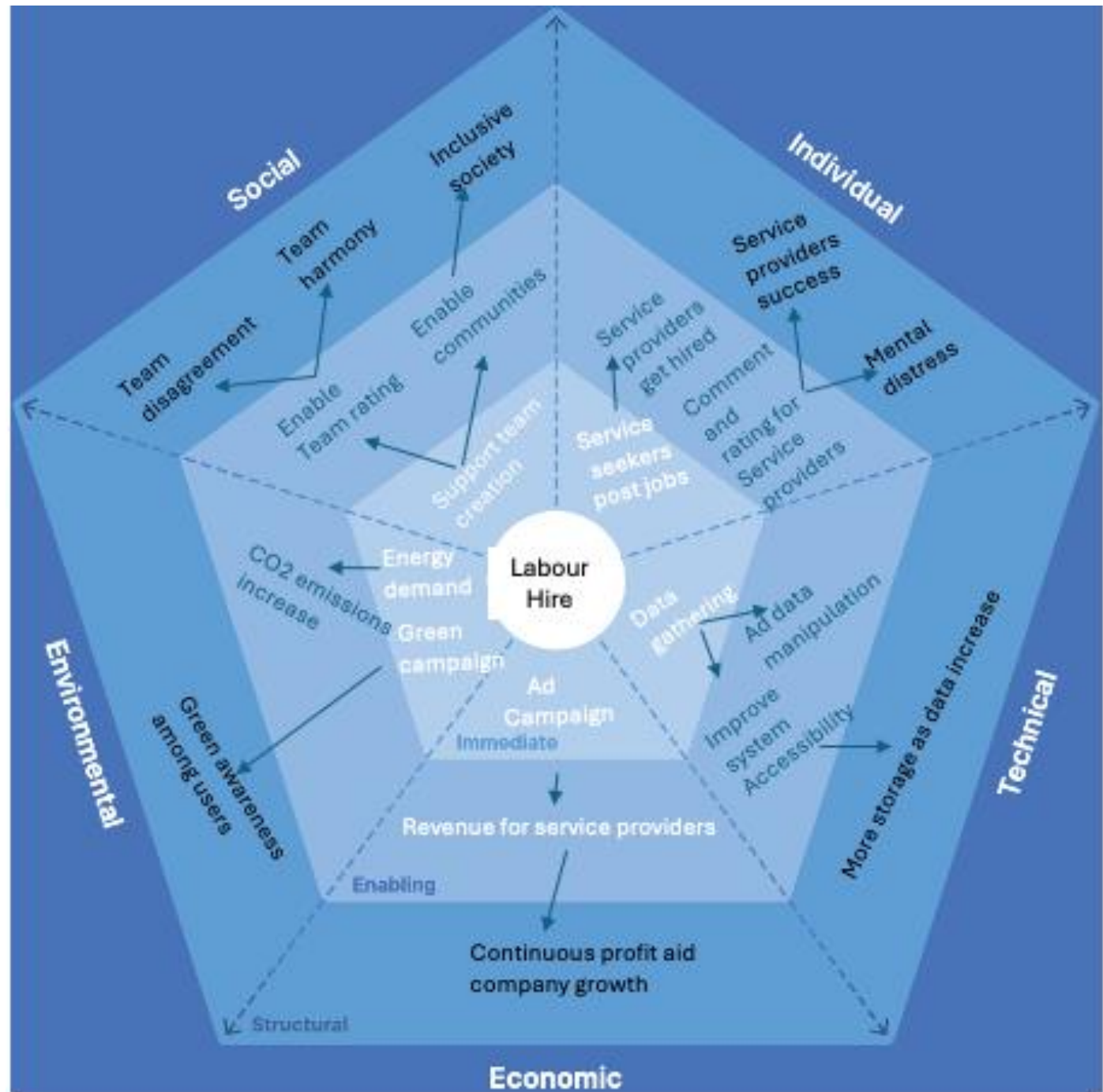
High Impact and Likely

1. **Localization helps reduce commute distance** (Environmental) – Possible but may not always be utilized effectively.
2. **Encouragement of small-scale entrepreneurship** (Economic) – Positive for service providers entering the workforce independently.
3. **System accessibility following WCAG** (Technical) – Ensures inclusive access but depends on continued adherence.
4. **User satisfaction with profile management** (Individual) – Contributes to a better experience but may vary by user.

Low Impact and Unlikely

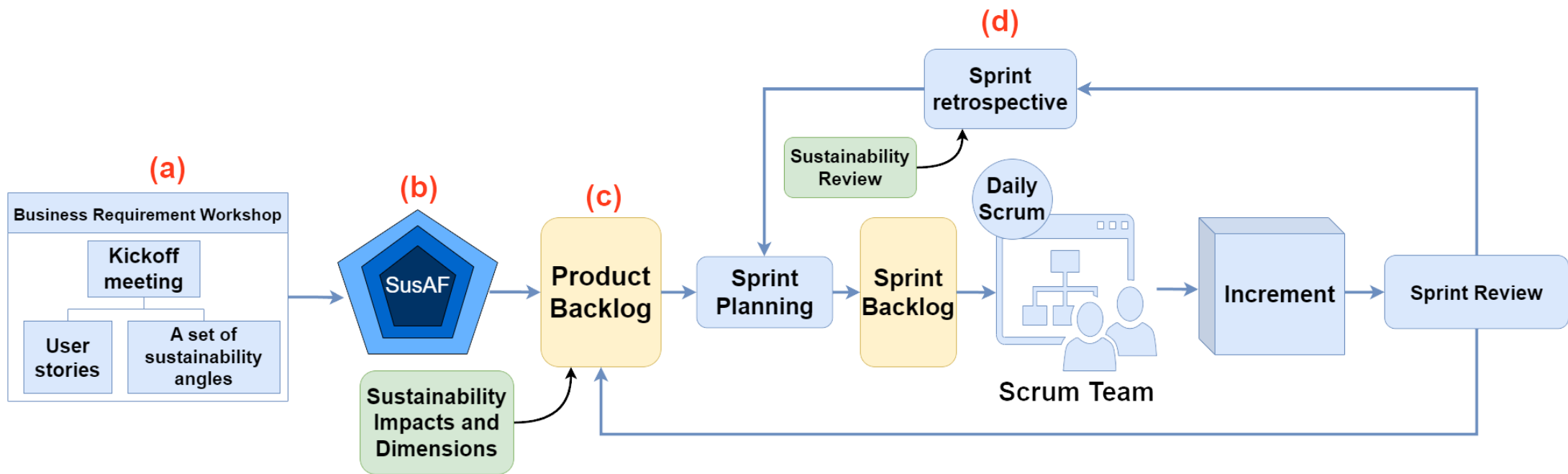
- **Ad could mislead public** (Social) – Potential impact, but more manageable with clear guidelines.
- **Need for more storage as data increases** (Technical) – May become a concern over time, but not immediate.

SusAF Impacts Documentation

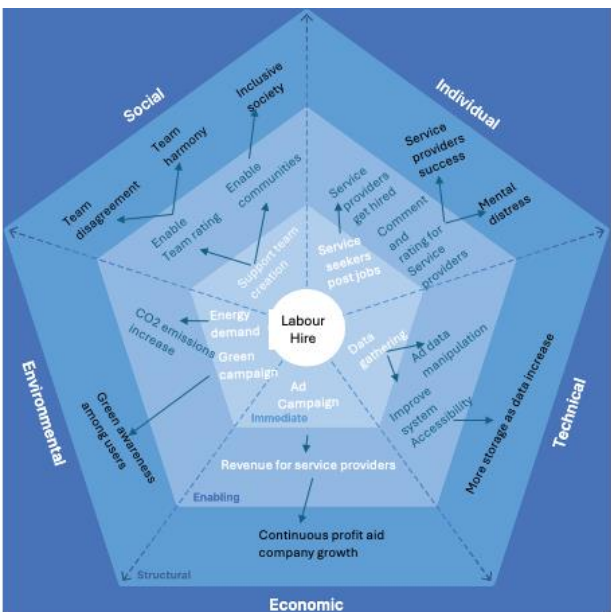


Product Backlog

1	User Story	Priority	Story Points
2	As a user, I want to create an account to access the platform's features.	High	3
3	As a user, I want to verify my email after registration for security.	High	2
4	As a service seeker, I want to post a task with details like title, description, location, and budget.	High	5
5	As a service seeker, I want to categorize my task for easier browsing.	Medium	2
6	As a service provider, I want to browse available tasks by category, location, and budget.	High	5
7	As a service provider, I want to filter tasks to find relevant ones quickly.	Medium	3
8	As a service seeker, I want to book a service provider for my posted task.	High	3
9	As a service seeker, I want to accept or decline task requests.	High	2
10	As a service provider, I want to securely pay for the task through the platform.	High	5
11	As a service provider, I want to form a team for large tasks through the platform to complete task on time.	Medium	8



Sustainability-Focused Product Backlog



	User Story	Priority	Story Points	Owner	Social Impact	Individual Impact	Economic Impact	Environmental Impact	Technical Impact
1									
2	As a user, I want to create an account to access the platform's features.	High	3	Ben					
3	As a user, I want to verify my email after registration for security.	High	2	Ben					
4	As a service seeker, I want to post a task with details like title, description, location, and budget.	High	5	Ben					
5	As a service seeker, I want to categorize my task for easier browsing.	Medium	2	Ben					
6	As a service provider, I want to browse available tasks by category, location, and budget.	High	5	Ben					
7	As a service provider, I want to filter tasks to find relevant ones quickly.	Medium	3	Ben					
8	As a service seeker, I want to book a service provider for my posted task.	High	3	Ben					
9	As a service seeker, I want to accept or decline task requests.	High	2	Ben					
10	As a service provider, I want to securely pay for the task through the platform.	High	5	Ben					
11	As a service provider, I want to form a team for large tasks through the platform to complete task on time.	Medium	8	Ben					

Sprint Planning

Review Sprint Goal

- Objective: Define what the team aims to accomplish by the end of the sprint.
- Sprint Goal: Create and launch a set of accessible learning modules with sustainability-focused content.

Backlog Review and Prioritization

- **Product Owner (PO)** presents and reviews the prioritized product backlog items (PBIs) related to the sprint goal.
- The team discusses and selects items that align with sprint capacity and goals.

Define User Stories for the Sprint

- Selected User Stories: *As a service seeker with visual impairments, I want the webpage to be compatible with screen readers so that I can access the content independently.*

Estimation and Task Breakdown

- The team estimates the effort required for each user story using story points or hours.
- Research accessibility best practices for screen readers (4 hours).
- Develop accessible templates for learning modules (8 hours).
- Test screen reader compatibility (6 hours).

Sprint Retrospective

Sprint	OBSERVING: What worked best and helped sustainability design decisions	OBSERVING: What were the obstacles and challenges	REFLECTING: What can we do differently to improve the overall sprint process?	PLANNING: What should be incorporated in the next sprint?
Sprint 1	One developer played the role of sustainability rep to keep the team on track as they made design decisions during this sprint.	It was challenging to use Jira and Excel templates at the same time. Team lacked sustainability knowledge and relied on SusAF, templates, and the researchers.	Incorporate the sustainability impacts into the sprint backlog. Establish some metrics to measure the sustainability of each sprint outcome.	Add sustainability impacts the sprint backlog. The researcher should join our sprint planning as a sustainability stakeholder.
Sprint 2	The continuous refactoring sessions helped reduce technical debt and keep the codebase clean. The cost-benefit analysis was useful to prioritize features that deliver maximum value	Despite efforts to optimize, the software product energy consumption is still higher than the desired consumption, especially during testing phases.	Identify and use better optimization strategies to improve the overall software product energy consumption.	Target reduction of energy consumption by 15% in the next sprint. Increase efforts to ensure diverse team participation in decision-making.
Sprint 3	The optimization of CI/CD pipelines reduced the energy consumption for the build and deployment processes.	Rapid iterations forced fast development and release, risking inefficient code results. This could cause technical debt and affect future maintainability	Create a better plan for each sprint iteration with a focus on supporting the team to create quality codes and test cases.	Work on efficient resource allocation to reduce delays in certain tasks that affect cost-effectiveness.
Sprint 4	The implementation of a modular architecture is good, which will aid in better long-term maintainability and adaptability in subsequent development iterations.	For individual sustainability, there is still a lack of personalization features, which might affect the ability of the software to meet the diverse needs of all users	Prioritize the implementation of personalization features for the software	Add at least two new personalization features for the next sprint. Add a green awareness campaign feature to educate users about sustainability. Add accessibility features for disabled users.
Sprint 5	Developers researched and adopted green coding practices, producing more efficient code. The sustainability representative pushed	Some team members felt overworked because of the tight deadlines	Introduce a system that will monitor the workload of the developers in each sprint to prevent burnout.	Monitor team workload. Add content filtering to detect and block hate comment

Transform Functional and Functional Requirements into User Stories

- The system must allow users to register, login, logout using a unique username and password
- The system must handle authentication requests within 2 seconds

User Story 1: User Registration

- As a **user**, I want to register with a unique username and password so that I can create an account to access the system.

Acceptance Criteria:

1. Users must provide a unique username and password to complete registration.
2. The system should validate that the username is not already in use.
3. Passwords must meet security requirements (e.g., at least 8 characters, include a mix of letters, numbers, and special characters).
4. Users should receive a confirmation message upon successful registration.
5. The registration process must handle authentication within 2 seconds.

Transform Functional and Functional Requirements into User Stories

- The system must allow users to register, login, logout using a unique username and password
- The system must handle authentication requests within 2 seconds

User Story 2: User Login

- As a **user**, I want to log in using my registered username and password so that I can access my account.

Acceptance Criteria:

- 1.Users must provide their registered username and password to log in.
- 2.The system should validate the provided credentials against stored data.
- 3.If login credentials are invalid, the system must display an error message without revealing sensitive information.
- 4.Successful login grants access to the user's dashboard or homepage.
- 5.Authentication requests must be processed within 2 seconds.

Transform Functional and Functional Requirements into User Stories

- The system must allow users to register, login, logout using a unique username and password
- The system must handle authentication requests within 2 seconds

User Story 3: User Logout

- As a **user**, I want to log out of my account so that my session is securely terminated.

Acceptance Criteria:

1. Users can log out by clicking a "Logout" button or link.
2. The system should end the user session immediately upon logout.
3. After logging out, the user is redirected to the login page or a public homepage.
4. Logged-out users cannot access secured areas of the system without logging back in.
5. Logout processes must be completed within 2 seconds.