Project Delivery Report Part B

Information System Development Methodologies 31257

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Author:	Jessica Nguyen – Student ID: Jason – Student ID: Samuel – Student ID: Timothy – Student ID: Aaron – Student ID: Nabil – Student ID:		
Owner:	Jessica Nguyen – Student ID		
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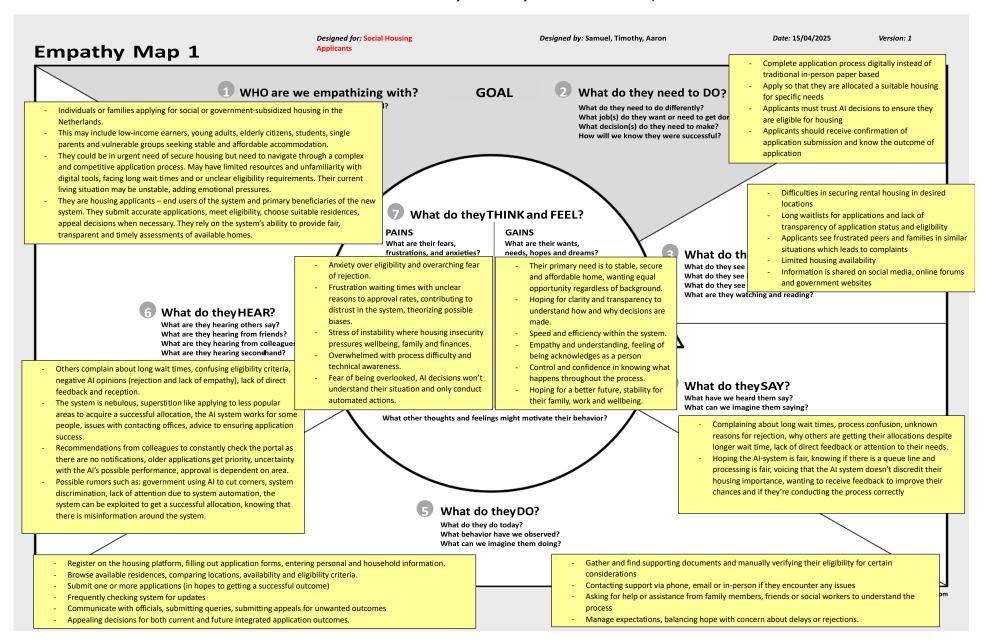
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Refer to Assignment Log

Empathy Maps and Journey

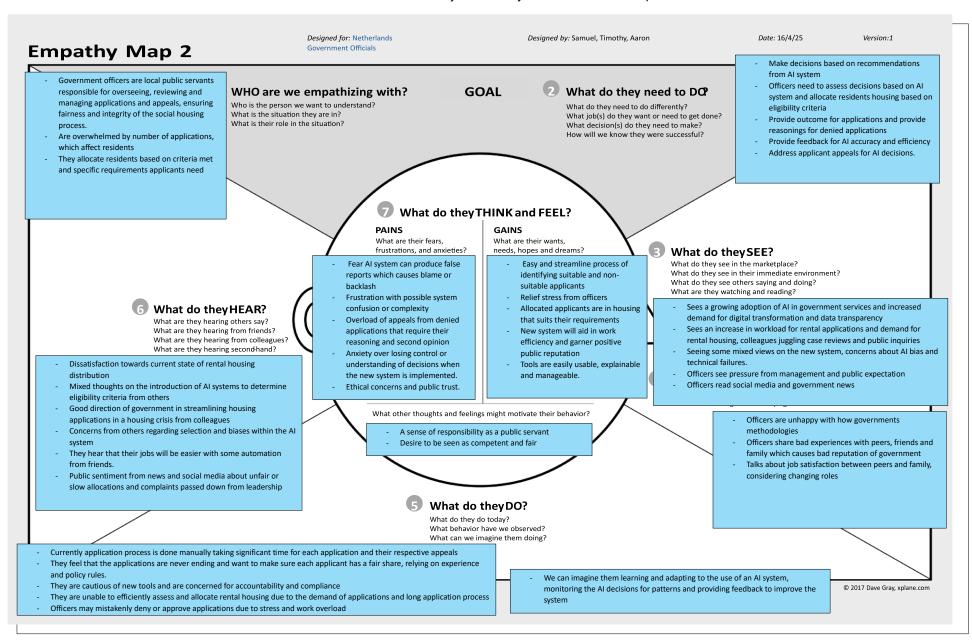
The stakeholders chosen for the empathy map and journey map are: housing applicants, government officials, and AI developers. The housing applicants are individuals seeking access to government-allocated residences and are in direct impact by the fairness and efficiency of the application process. These individuals may face financial, social, or medical hardships. Government Officials are a body of individuals that oversee the residence application system. They receive recommendations based on the AI systems decision making process and ensure that decisions are lawful, transparent and equitable, while also managing appeals when applicants challenge outcomes. The AI developers are tasked with designing, building and maintaining the automated assessment system by balancing technical performance with ethical considerations. These groups play a critical role in the success and integrity of the housing allocation process.

Below are the Empathy Maps and Journey Maps of the three stakeholders.



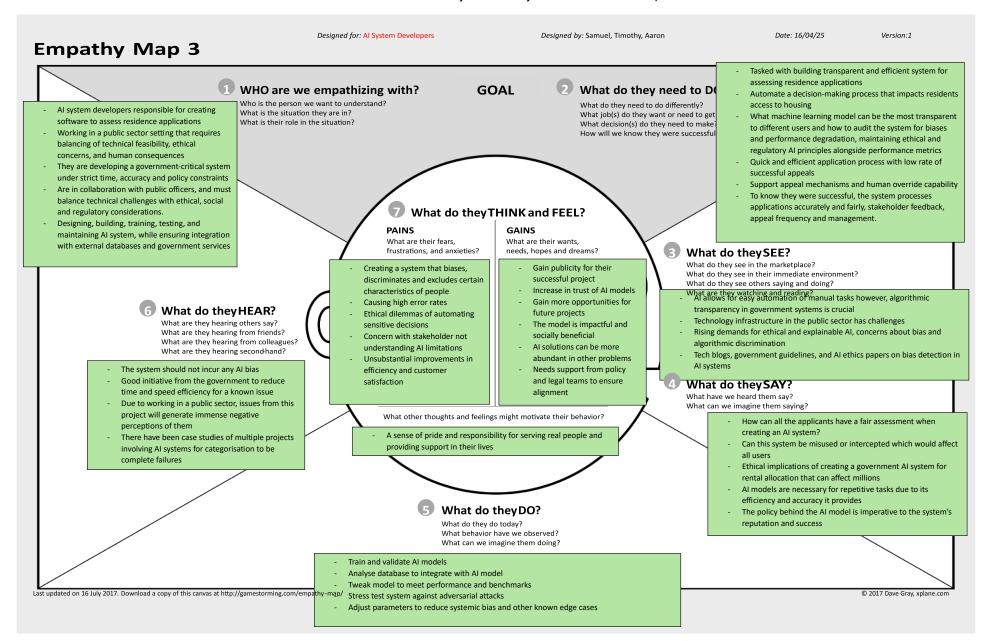
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NN/g Journey map 1

PERSONA	SCENARIO	USER EXPECTATION	NS	
Netherlands Social Housing Applicants	Applying for social housing that fits requirements	out expects seaminess in	User expects seamless integrated experience in the application process to be allocated to their desired social housing	
PHASE 1	PHASE 2	PHASE 3	PHASE 4	
Registration	Application for Residence	Automated Eligibility Assessment	Result and Appeal	
OOING - Submit personal details and creating an applicant profile	- Selecting appropriate social housing based on their requirements	 Constantly checking application and waiting for the outcome View criteria 	Receive and reviewing outcome Accepting outcome Appealing outcome	
Does my situation align with their requirements which would allow me to have a social housing allocation Unclear of eligibility requirements and if suitable	 Uncertain about outcome of application Want to be accepted to their desired housing 	Anxious about outcome of application Begin to think of next stages based on outcome	Excited about allocation and when can they move in Why was the application rejected and what are the options	
6 AYING - Want a social housing allocation to be successful and their needs are met	Hope the process does not take long Hope their situation aligns with the requirements of their selected social housing	 Uncertain if social housing will be accepted What other resources can aid me if this is unsuccessful 	Happy about the outcome and thankful Appeal process or applying for different residencies	
NSIGHTS		INTERNAL OWNERSHIP		
unsuccessful tend to be disgruntled and unhappy	be satisfied by the allocation process whilst those that with the outcome presenting transparent evaluation methods for applicants will	Application success rate should exceed 50% Allocation process time should decrease by Application appeal rate should decrease by		

NN/g JOURNEY MAP 2

PERSONA SCENARIO USER EXPECTATIONS Netherlands Government Reviewing and managing applications and appeals, **Netherlands Social Housing Applicants** ensuring fairness and integrity of the social housing Officials process Applicants PHASE 2 PHASE 3 PHASE 4 PHASE 1 Provide extra support **Review Appealed Applications Review Application** Provide Outcome Sort through appealed applications DOING Providing resources and other means of non-Reviewing system results Reevaluate application against successful rental housing support - Sort through applications Determining whether system evaluation is application Advise on how to increase chances of success Review against eligibility criteria provided by Cross evaluate with colleagues outcome Help them understand the system Choosing successful applicants Provide further reasoning for denied - Understanding applicant's situation applications THINKING Is the chosen applicant the most suitable for Was this application denied with correct Will this denial affect the applicant - Does this applicant meet the requirements this residence reasoning? significantly - Has this applicant created similar requests Has the system corrected placed applicants as Is providing support enough Was there bias in the decision making before per the evaluation criteria Is there reasoning behind the appeal Will providing support increase the Comparing with other applications, which one Will there be any changes to this decision applicants' chances of success is more serious SAYING This system aids in evaluating applicants There seems to be less appeals due to I hoped everyone was successful however - Theres too many applications and not faster with ease transparency in decision making there is not enough social housing enough available The applicant should be satisfied with their How can we still help the applicant in the Everyone deserves a roof over their head - This system has allowed for more eligible allocation event of unsuccessful housing allocation applicants to apply Those who are not successful should understand why

INSIGHTS

- Allows officers and applicants to understand the depth of government assistance regardless of approved or rejected applications
- Enables future development with automated AI systems
- Al systems have allowed resources to be reallocated to increase efficiency not just in the specified system

INTERNAL OWNERSHIP

- Government officials: Final outcome of applications and handles appeals

NN/g Journey map 3

PERSONA **SCENARIO USER EXPECTATIONS** Building transparent and efficient system for Al System Developer **Netherlands Social Housing Applicants** assessing residence applications PHASE 1 PHASE 2 PHASE 3 PHASE 4 **Understand Problem and Planning Building and Testing** Launch & Feedback **Designing System** Deploy model and monitoring performance DOING Creating code that checks eligibility from the Iterating model based on feedback or policy Understanding requirements and eligibility rules Drafting system architecture government rules Discuss with stakeholders on requirements of the Defining rules for AI model Running test case and debugging scenarios Reviewing results from inaccurate evaluation and Designing integration with external databases project Simulating applications for accuracy and fairness Will there be any criticism from the public from Is the AI model unbiased? What happens if model doesn't perform as expected THINKING going live Does the system architecture meet the How can outliers be controlled Will this be scalable for future changes and governments requirements? How is this project going to be designed? How to secure system in the event of adversarial attacks Is AI model a good approach? regulations - How can this system be transparent What can be implemented to ensure the model Did our rigorous testing cover all current threat Will the model be transparent and efficient with - Is the budget and timeline proposed feasible performs to its expectations with minimal downtime its decision making This partnership with the government was a Our rigorous testing and debugging ensures SAYING accuracy and fairness of the model This architecture is designed to be user friendly We encourage all feedback from others This model is prepared for a variety of threat This system will be designed with the intent to be This project will be continuously maintained and We understand this model will not be 100% scenarios unbiased, transparent and efficient monitored accurate however methods will be used to Working in a public sector will be different to With the project success, we hope future improve its capability over time

INSIGHTS

previous projects

- Opportunities for further developments in the government sector
- Projects typically will not lead to expected end results however being prepared and understanding common oversights will ensure smooth integration

INTERNAL OWNERSHIP

- Software development Team: produces sufficient system that meets performance and efficiency

collaborations will be possible

- Quality Assurance Team: Testing functionally and ensuring standards meet government guidelines
- DevOps Team: streamline development and deployment team

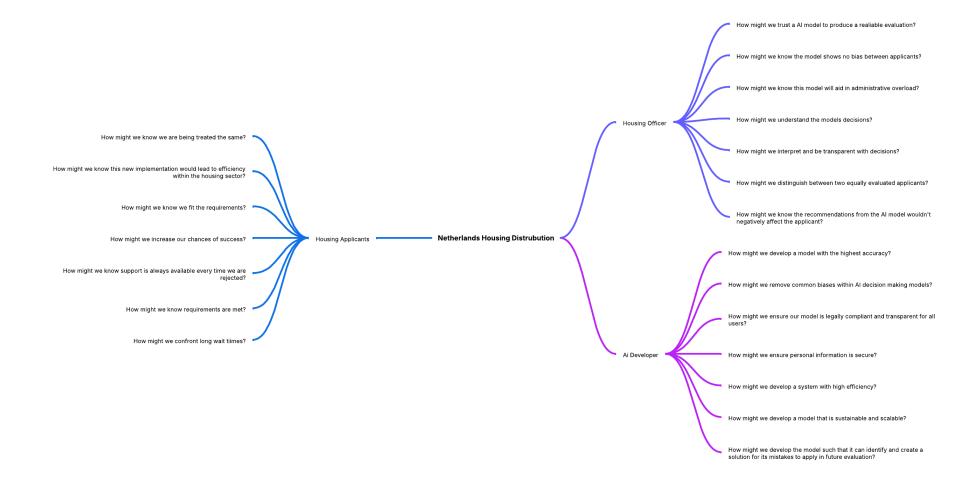
Problem Definition with POVs

Using insights from stakeholder empathy and journey mapping, we receive insights that concisely define the key challenges and problems as Point of View (POV) statements. These statements help ensure our solutions remain human-centered, actionable and grounded in accordance with real user needs.

- 1. Housing Applicants require a clear, fair, responsive and efficient process due to their feeling of uncertainty and overwhelming when confronted with long wait times, confusing eligibility criteria and repetition of events after application rejections. POV Statement: "As a housing applicant, I need a fair and fast process that helps me understand my eligibility and notified of my application status. This is because of my extenuating circumstances, stressful situations, and not knowing where I will be situated only adds additional stress and uncertainty to my life".
- 2. Housing Officer require a trustworthy, robust and transparent system because they are held accountable for fair allocation however also face administrative overload. POV Statement: "As a housing officer, I need a system that I can easily learn to use, trust and easily audit, because I am responsible for ensuring fair decisions. Currently, I am spending too much time manually checking or responding to preventable appeals that could be avoided with better transparency throughout the process."
- 3. Al Developers require well-structured data and ethical clarity because they must deliver transparent, accurate and legally compliant solutions under high scrutiny. POV Statement: "As a developer, I need access to reliable data and clearly defined ethical boundaries, because I am building a system that directly affects people's lives, and I can't be liable to risk unintended bias or decisions that no one can explain, defend or be held accountable later."

Ideation and backlog

Based on the POVs, 'How might we' are created from the empathy and journey maps in the previous section.



From the Brainstorming of the POV ideations, a backlog is created and sorted based on priority

	Housing Officer As a user, I expect the AI model the produce reliable evaluations As user, I want to assess applicant fairly to determine who is the best fit As a user, I want to be treated equally
	New New New
High priority	Housing Officer As a user, I want to ensure biases are contained and threats identified New New Al Developer As a user, I want to develop the model to understand the mistakes and learn to rectify them New New New
	Al Developer As a user, I want the model to adhere to all legislation and regulations New Al Developer As a user, I want to develop a model that can consistency and accurately evaluate applicants New New New
	Usuring April and
	Housing Applicant As a user, I want to see the efficiency from the government in allocating using Al Developer As a user, I want to know how the model reaches its outcome New New New
≥	New O
Medium priority	Al Developer As a user, I want to develop an efficient system New Housing Applicant As a user, I want to know how to increase the chances of success New New New Rew New
Me	Housing Officer As a user, I want to reduce my workload and stress of determining eligibility of applicants
Low priority	Housing Applicant As a user, I expect resources and support for every scenario regardless of success or failure New New New New New Housing Applicant As a user, I want to understand the requirements and ensure I am the most suitable New New

Prototype Design leading (to interface design)

The user stories are formulated from the journey and empathy maps presented in this document based on the distinctive user types, such as social housing applicants, the Netherlands government officials and AI system developers.

User Stories

Social Housing Applicants:

- As an applicant, I want to submit my application online smoothly so that I don't need to go through the manual process.
- As an applicant, I want to see my application status online so that I do not need to refer to government officers to follow up on my application.
- As an applicant, I want my application to be processed quickly so that I can secure one of the government residences of my choice due to my inability to afford housing.
- As an applicant, I want the government to avoid discrimination in the application process so that I can secure a house from the preferences I have provided in the application.
- As an applicant, I want to be provided with alternative housing options during rejection so that I can efficiently resolve my housing needs without relying on customer service.
- As an applicant, I want to preview how my eligibility compares to others anonymously (e.g., queue position or priority ranking) so that I understand my chances and feel reassured that the system treats everyone fairly.
- As an applicant, I want to save my in-progress application form online automatically so that if I encounter technical problems or interruptions, I can continue later without losing my information.
- As an applicant, I want to receive instant, clear confirmation once my application is successfully submitted through email or SMS so that I have proof of submission and feel confident it is being processed.
- As an applicant, I want the AI system to notify me if there are technical errors (e.g., upload failures or missing documents) during the eligibility check so that I can fix issues promptly without facing automatic rejections.
- As an applicant, I want a short, plain-language guide at every application stage explaining what is happening and what to expect next so that I feel less overwhelmed by the digital process and AI automation.

Netherlands Government Officials:

- As a government housing official, I want the system to accurately assess applications upon submission so I am not overwhelmed with a large volume of manual reviews.
- As a government housing official, I want the AI system to enable full access to all application data so that I can make a fair decision on the application outcome.

- As a government housing official, I want to enter my input on the decision I have made into the AI system for the application outcome so that this can be sent to the applicant.
- As a government housing official, I want the ability to override all eligibility results generated by this AI-based system once I have made the final decision so that the applicants are not treated unfairly.
- As a government housing official, I want the system to flag applications that may require deeper human review (e.g., unusual appeal patterns or conflicting information) so that I can prioritise my manual workload more efficiently.
- As a government official, I want to access a detailed change log of applicant appeals and decisions made by the AI so that I can understand the applicant's entire history when reconsidering an appeal case.
- As a government housing official, I want the system to suggest standardised reasons for rejection that I can edit or customise so that my communication with applicants remains clear, consistent and fair.
- As a government housing official, I want to receive regular summary reports on system
 performance (e.g., appeal rates and decision overturns) so that I can monitor if the AI
 model is supporting fairness and adjust processes if required.
- As a government housing official, I want the system to prompt me with contextual guidance (e.g., relevant eligibility policies) during case reviews so that I can confidently align my decisions with updated government regulations.

Al System Developers:

- As a system developer, I want the system to accurately assess applications based on predefined eligibility rules so that I can focus on improving other areas of development rather than constantly fixing system issues.
- As a system developer, I want the system to automate outcomes with alternative housing options if unsuccessful for the applicant after a certain period, ensuring the applicant is informed.
- As a system developer, I want the system to not perform any biassed decision-making when automatically reviewing the application process so that the government officials are not pressured with more workload.
- As a system developer, I want the system to securely store and process all applications so that the government can comply with privacy and data protection laws and build user trust.
- As a system developer, I want the system to flag any applications that are borderline or require further review with a government official so that applicants are not rejected unfairly for housing allocation.
- As a system developer, I want to implement a real-time monitoring dashboard that flags abnormal application patterns (e.g., unusually high rejections for a specific group) so that I can detect possible biases early and recalibrate the model if necessary.
- As a system developer, I want the system to simulate and run eligibility test cases automatically after every code deployment so that I can ensure changes do not accidentally introduce new biases or errors.

- As a system developer, I want to securely log every major AI decision (including the type of criteria used and score assigned) into an audit trail so that government officials can review past decisions to resolve disputes and demonstrate system transparency.
- As a system developer, I want the AI model to include a self-assessment component that periodically evaluates its fairness and flags when retraining is required so that the system can adapt to changes in population data and policy requirements.
- As a system developer, I want to ensure that fallback manual review mechanisms activate if the system detects uncertainty or adversarial attack signs so that critical application decisions are never left to unreliable outputs.
- As a system developer, I want the system to flag any applications that are borderline or requires further reviewing with a government official, so that applicants are not rejected unfairly for housing allocation.

Wireframes

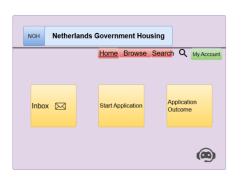
This high-level overview of the AI system is based on the user stories formulated in the above, giving a step-by-step process on how applicants and government officials can navigate on the system. This system is designed to be an intuitive and user-friendly interface for all users, where applicants can interact with the system by inputting application data and government officials can retrieve this data to perform manual reviews if necessary. Staff can be notified of a manual review process via a flagged notification generated by the AI system.

Netherland Government Official Housing Application Process



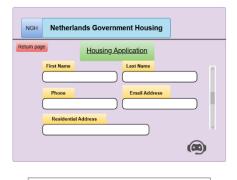
Step 1: Sign-up/Login Page

First the user/applicant will need to access a website that takes them to this login page. This is the page where all applicants can login using their existing credentials or create a new account to start the application process.



Step 2: Application Dashboard Page

This is the user/applicant's dashboard page of the website. It is meant to be user-friendly and intuitive for the applicant to navigate to various tabs of their application; prompting them to either proceed with the application process or follow-up their existing application



Step 3: Application Process Page

This page shows the user/applicant enter their personal details onto the housing application process. This page only reveals half of the required details needed for the application. Once they reach to the end of the application, a submit button will appear.



Step 4: Application Submission

After application is sent, this triggers the AI system to send an application outcome email to the user.

The system would also store the application data for government officials to utilise for further manual reviewing if required. This is accessible only authorised users, complying to data protection and privacy

Netherland Government Official Information Input Process



Step 1: Sign-up/Login Page

This user (i.e. government official) uses the AI system where clicking onto the system would trigger the login page. This is the initial process of accessing the AI system.



Step 2: Internal Staff Dashboard Page

This is the government official's dashboard page is meant to be user-friendly and intuitive for the staff to navigate to all applications and initiate the review process, as well as submitting the final outcome.



Step 3: Viewing Application Backlog

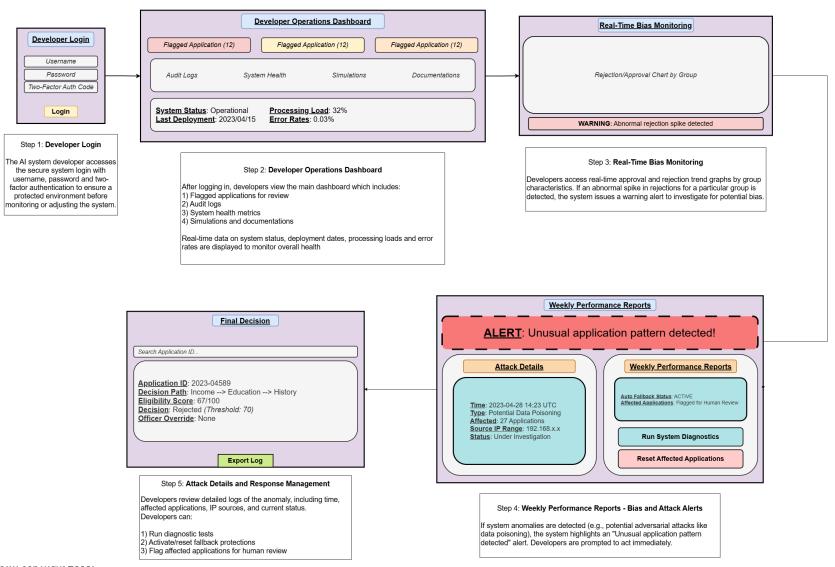
This page shows the list of unsuccessful applications for the government official to check all users requiring a manual review process.



Step 4: Viewing Application Backlog

This page shows the manual review process for one applicant that the government official will need to work on. Once the official has submitted, the system will trigger an email of the application outcome to the applicant

Al Software Developers Monitoring and Maintenance Process



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Netherland Government Officials Appeal Management and Decision Review

Common Appeal Reasons

Step 6: Weekly Performance Reports

Officers can review system-generated reports showing:

This helps monitor system fairness and inform future adjustments

to improve applicant outcomes and efficiency.

Appeal Overturn Rates

Appeal Overturn Rates
 Common reasons for appeal
 Bias trend alerts

Appeal Timeline Officer Dashboard **Application Details** Login Page Final Decision Flagged Application (12) Applicant: John Doe Username Flag Reason: Conflicting Data Status: Awaiting Approval... Pending Appeals (8) Additional notes to applicant.. Password Decisions Pending (15) Al Re-Evaluation: Flagged Approve Reject Send Decision Login Awaiting Officer Decision Search Application.. Pending Appeals (8) Step 5: Final Decision Step 2: Officer Dashboard Step 4: Appeal Timeline Step 1: Login Page Step 3: Application Details The officer selects the final reason for approval or rejection from After login, the officer is directed to a dashboard When reviewing appealed applications, officers are presented with a timeline showing: The government official accesses the summarising: 1) Flagged Applications needing manual review 2) Pending Appeals 3) Decisions pending finalisation Upon selecting an application, the officer sees detailed a dropdown menu and adds any additional notes to personalise secure login page to enter their applicant information, flag reasons (e.g., conflicting data), and the status of the case. Officers are given the option to communication to the applicant. Clicking "Send Decision" 1) The original AI decision username and password. Successful submits the outcome and updates the applicant's record. 2) Appeal submission authentication grants them access to approve, reject, or move the case to pending appeal. Al re-evaluation flags Current awaiting officer decision the housing allocation management Officers can also research for a specific applicant using the search bar. This gives officers clear visility over the history and status Weekly Performance Reports

Bias Trend Alerts

Method Execution

Execution of Scrum and DT

This project adopts a hybrid methodology, combining the user-centered, problem-solving approach of Design Thinking (DT) with the iterative and agile framework of Scrum, guided by principles derived from PRINCE2 for overall project governance and control as outlined in the Project Brief. This integrated approach is specifically engineered to address the complexities of developing an AI-driven system for social housing allocation, balancing technical development with a deep understanding of diverse stakeholder needs and ethical considerations.

The rationale for this combination stems directly from the project's nature as defined in Part A and the insights gained during the Empathizing phase of Part B:

Within our hybrid DT and Scrum framework, the Design Thinking phases provide the essential upfront and ongoing user-centric direction for the iterative development cycles (Sprints). While not strictly sequential in practice and often revisited throughout the project, their core intentions, rationales, and focus areas are critical:

• Empathize Phase:

- Intention: To develop a deep understanding of the stakeholders' experiences, needs, challenges, and motivations related to the social housing allocation process.
- Rationale: As highlighted by the complexities and pain points revealed in the Empathy Maps and Journey Maps, a profound understanding of the users (Applicants, Officers, Developers) is fundamental to designing an effective and accepted solution. Without genuine empathy, there is a high risk of building a system that is technically sound but fails to address the real human needs and operational realities, potentially exacerbating existing issues like user resistance or ethical concerns.
- Focus: This phase involved activities such as analyzing the provided case study details, making and documenting assumptions where information was incomplete, and creating visualization tools like Empathy Maps and Journey Maps for the key stakeholder groups. The focus was on uncovering explicit statements, thoughts, feelings, pain points, and potential gains from each perspective.

• Define Phase:

 Intention: To clearly articulate the core problems and opportunities identified during the Empathize phase as meaningful and actionable problem statements.

- Rationale: Moving from observations in the Empathize phase to well-defined problem statements (Point of View - POV statements) is crucial for providing a clear focus for the subsequent ideation and development efforts. It ensures that the team is aligned on what the most critical issues are to address from the user's perspective. This directly feeds into creating a user-centered Product Backlog in Scrum.
- Focus: Analyzing the insights gathered from the Empathy Maps and Journey Maps
 to identify key user needs and the underlying reasons for those needs. This involved
 synthesizing observations to craft concise and compelling POV statements for each
 primary stakeholder group, as was completed in the Problem Definition section of
 the report.

Ideate Phase:

- Intention: To generate a wide range of potential solutions to the defined problem statements.
- Rationale: The Ideate phase encourages divergent thinking, exploring numerous possibilities without immediate judgment. By reframing POVs into "How Might We" (HMW) questions, the team is prompted to brainstorm innovative approaches that might not be immediately obvious. This is vital for moving beyond incremental improvements and considering potentially transformative solutions to complex issues like algorithmic bias or system transparency.
- Focus: Converting the POV statements into HMW questions to widen the solution space. This will involve brainstorming sessions using techniques like mind mapping to generate a large quantity of diverse ideas aimed at addressing the HMWs. The outcome of this phase directly informs the potential solutions that will be further explored, refined, and potentially added to the Product Backlog.

Prototype Phase:

- Intention: To create low-fidelity, tangible representations of selected ideas to test and gather feedback.
- Rationale: Prototyping makes abstract ideas concrete, allowing the team and stakeholders to interact with potential solutions. This is an efficient way to test assumptions about what works and what doesn't early in the process, reducing the risk of building the wrong features. For this project, prototyping user interfaces (wireframes) is particularly important for validating usability and workflows for both applicants and officers.
- **Focus:** Based on the prioritized ideas from the Ideation phase and the user stories in the Product Backlog, create simple prototypes such as sketches, wireframes, or basic interactive mockups for key parts of the system, such as the applicant

registration flow, the property browsing interface, or the officer's application review screen. These prototypes will be used in the next phase to gather user feedback.

Test Phase:

- Intention: To obtain feedback on the prototypes from stakeholders and refine the solutions based on their input.
- o **Rationale:** Testing with real users is fundamental to validating whether the proposed solutions effectively address their needs and pain points. This feedback loop is critical for identifying flaws, uncovering new insights, and iterating on the design before committing significant development resources. In the context of Scrum, feedback from testing prototypes can lead to revised user stories or new items in the Product Backlog for future Sprints.
- Focus: Presenting prototypes to representatives of Housing Applicants, Government Officers, and potentially Property Management. Gathering their feedback on the usability, clarity, and effectiveness of the proposed design solutions. Analyzing the feedback to inform revisions to the prototypes, user stories, and the prioritized Product Backlog. This phase will occur iteratively throughout the project, often at the end of Sprints when functional increments are available for testing.

PRINCE2 Principles:

As established in the Project Brief, PRINCE2 principles, such as managing by stages, focusing on products, and managing by exception, provide a layer of governance and control. The Project Plan outlines key aspects like tolerances, risks, and quality criteria, which will be monitored and controlled throughout the Scrum Sprints, ensuring the project remains aligned with the Business Case and its objectives.

Scrum:

The project's objective to develop an AI system with multiple components (AI model, databases integration, user interfaces, appeals system) within a defined timeline and budget necessitates an agile framework that supports iterative development, flexibility, and continuous feedback. Scrum's timeboxed Sprints, defined roles (Product Owner, Scrum Master, Development Team), and artifacts (Product Backlog, Sprint Backlog, Product Increment) provide the structure for managing this complexity. The iterative nature of Scrum, with regular Sprint Reviews and Retrospectives, aligns well with the DT process, allowing for continuous learning and adaptation based on feedback from stakeholders and the results of prototyping and testing conducted throughout the project lifecycle.

The method execution will follow an iterative process, with each iteration (Sprint) typically lasting 1-4 weeks (as per standard Scrum practice and adaptable to project needs) and incorporating elements of both Design Thinking and Scrum activities. The intention, rationale, and focus of each iteration will be recorded to demonstrate progress and facilitate tracking, fulfilling the requirements of the marking criteria.

The following is an outline of the intended focus for initial iterations:

- Sprint 1: Foundation & Applicant Registration (Focus: Empathize, Define, Ideate, Prototype, Build - foundational elements)
 - Intention: To establish the basic technical infrastructure and develop the core functionality for applicant registration.
 - o **Rationale:** This directly addresses the initial phase of the Housing Applicant's journey (Registration) and is a foundational requirement for all subsequent interactions with the system. It also allows the team to quickly address potential technical integration challenges identified in Part A.
 - Focus: Setting up development environments, integrating the applicant database, designing the user interface for registration based on early prototyping and user feedback, and developing the code for user signup and profile creation.
 - Deliverables: Working registration module, connected to the applicant database.
- Sprint 2: Basic Eligibility Check & Officer Review Interface (Focus: Define, Ideate, Prototype, Build - core system logic)
 - Intention: To implement a preliminary version of the AI-driven eligibility assessment and create the basic interface for Government Officers to view applications and AI outputs.
 - Rationale: This tackles the core problem the system is designed to solve –
 automating eligibility checks and provides officers with visibility into the process
 (Phase 1 of Officer Journey Map), addressing their need for a trustworthy system.
 - Focus: Developing the initial AI model based on defined eligibility criteria, integrating it with the applicant data, designing and coding the basic Government Officer Dashboard for viewing applications and assessment results.
 - Deliverables: Basic AI eligibility check functionality, initial Government Officer Dashboard.
- Sprint 3: Property Data Integration & Applicant Property Viewing (Focus: Empathize, Define, Build - expanding user functionality)
 - Intention: To integrate the residence database and enable Housing Applicants to browse available properties through their portal.
 - Rationale: This addresses a key step in the Housing Applicant's journey
 (Application for Residence) and utilizes the property data source identified in Part A.

- Focus: Developing the module for integrating the residence database, designing and coding the Applicant Portal interface for browsing properties, and ensuring data synchronization between the systems.
- Deliverables: Integrated residence database, functional property browsing feature in the Applicant Portal.

Project tracking and progress monitoring:

Project tracking and progress monitoring will be integral to each Sprint and the overall project governance. The team will maintain a digital "diary" through a collaborative tool (as agreed upon in Part A), documenting daily progress, decisions made, impediments encountered, and their resolutions. User stories will be tracked on a digital board, showing their status within the Sprint (e.g., To Do, In Progress, Done).

Project Board interaction and tracking will occur through several mechanisms:

- Sprint Reviews: At the end of each Sprint, a Sprint Review meeting will be held where the
 Development Team demonstrates the completed Product Increment to the Project Board
 and other key stakeholders (including representatives of Housing Applicants and
 Government Officers where possible). This allows the board to inspect the working
 software, provide feedback, and make informed decisions about the project's direction
 based on tangible progress and user validation.
- **Highlight Reports:** The Project Manager will provide regular (e.g., weekly) Highlight Reports to the Project Board, summarizing the Sprint's progress against the plan, key achievements, any significant issues or risks encountered, and forecasting the next period's work, in line with PRINCE2 principles.
- Issue and Risk Management: A shared Issue and Risk Log will be actively maintained and reviewed regularly (at least weekly) by the team and key stakeholders. Any new issues or risks, particularly those highlighted as major risks in the Business Case, will be assessed for their impact on Sprint goals and overall project objectives. Significant issues that threaten Sprint or project tolerances (as defined in the Draft Project Plan) will be immediately escalated to the Project Board through Exception Reports, allowing them to make informed decisions and provide guidance.

By explicitly linking the insights from the Empathize phase (captured in Empathy and Journey Maps and distilled into POVs) to the iterative cycles of Scrum, and by implementing clear mechanisms for tracking progress and engaging the Project Board, the project aims to ensure that the technical development remains firmly grounded in the real needs and experiences of the users, leading to a more effective, equitable, and accepted solution for optimizing social housing distribution, while maintaining control and transparency throughout the project lifecycle.