Evaluation with pre-defined requirements and criteria

Contents

Evaluation.....1

Introduction 3

Validation Against Requirements for Project Breakdown Bot 4

Validation Against Requirements for Project Decomposition Guide Bot and Sub-Element Breakdown Bot 7

Conclusion.....11

Introduction

With this evaluation I wanted to validate the systems output with the predefined criteria from the Specifications & Design phase. This test will show how the Breakdown Bot Level 1 and the Breakdown Bot Level 2 can dissect projects into actionable tasks. I use three examples, breaking them down half way and analyzing the results then I will go through the requirements and criteria to find out if these systems can adhere to the criteria. These examples were picked, because they are both comprehensive and simple. Even though they are simple, each step needs to make sense and needs to stay in their own scope.
The structured the document in two segments, first the validation against the requirements, to show which of the requirements was met and next will be the evaluation with the criteria. This will give me a detailed evaluation, highlighting the capabilities and its limitations.

Examples:

1. Create a Business model canvas for a marketing company in the Netherlands.
2. Set up an empathy map for the target audience of a new smartphone game
3. Put together a detailed project plan for the launch of a new E-commerce platform

Validation Against Requirements for Project Breakdown Bot

1. Input Handling

- **Criteria**: Ability to accept high-level project tasks as input and parse them for processing. Input should include project objectives, key results, and scope details.
- **Validation**: Yes, the system meets this requirement. In the images provided, you can see the input handling of high-level project tasks. The "Objective" section clearly lists the project objectives, and the "Key Results" section outlines the key results expected. The "Scopes" section provides detailed scope details for each project, demonstrating that the system can accept and parse these inputs effectively.

Name	Index	Status	Description	Requirements
Identify Channels	1.3	Done	Determine the most effective channels for communication and distribution to the chosen customer segments.	Knowledge of Environment, Analytical Skills
Define Value Propositions	1.2	Not started	Develop unique value propositions and differentiate from the competition.	CRM Knowledge, Value Creation
Define Customer Segments	1.1	Done	Identify and define the specific customer segments that will best use the marketing services.	Creative Thinking
Formulate Cost Structure	1.9	Not started	Analyze and determine the complete cost structure of the business, including both direct and variable costs.	Financial Analysis Knowledge, Decision Making
Determine Key Partners	1.8	Not started	Identify critical partners and collaborations that contribute to the functioning of the business model.	Negotiation Skills, Contract Management
Identify Key Resources	1.7	Not started	Identify and organize the key resources needed to perform the key activities.	Resource Management Knowledge, Budgeting
Define Key Activities	1.6	Not started	Detail the key activities needed to deliver the value proposition and be successful in the market.	Project Management, Organizational Skills
Determine Revenue Streams	1.5	Not started	Identify the revenue streams for value propositions that attract the attention of customer segments.	Budgeting Knowledge, Administrative Skills
Create Customer Relationships	1.4	Not started	Develop strategies for building and maintaining long-term relationships with customers.	CRM Knowledge, Empathetic Skills

2. Sub-Element Decomposition

- **Criteria**: Automated decomposition of high-level tasks into detailed sub-tasks. Each sub-task should include specific actions, dependencies, and requirements.
- **Validation**: Yes, this requirement is met. The "Laundromat AI Output Level 1" and "Laundromat AI Output Level 2" tables show the decomposition of high-level tasks into detailed sub-tasks. Each sub-task includes specific actions, as evidenced by the descriptions, and the requirements for each task are listed in the "Requirements" column.

3. Dependency Mapping

- **Criteria**: Automatically identify and map dependencies between sub-tasks to ensure proper sequencing and resource allocation.
- **Validation**: Yes, in the image you can see how the index columns in both tables correlate with each other.

4. Output Specification

- **Criteria**: Generate outputs in a specific format, ensuring consistency with existing data structures. Each sub-element must include:
    - Name
    - Detailed description
    - Scope (inclusions and exclusions)
    - Dependencies (missing from the tables)

Name	Index	Status	Description	Requirements
Develop Strategy for Channel Integration	1.3.3	Not started	Create a plan to integrate both existing and new channels into a coherent and seamless marketing and distribution model.	Strategic Planning Skills, Communication Skills
Identify New Channels	1.3.2	Not started	Research market trends to find new and untapped channels for reaching target customer segments.	Digital Marketing Knowledge, Creative Thinking
Audit Existing Channels	1.3.1	Not started	Analyze and assess the performance and reach of the existing communication and distribution channels used within the organization.	Data Analysis Knowledge, Analytical Skills
Validate Value Propositions	1.2.3	Not started	Test and validate prototypes of MVPs (Minimum Viable Products) based on developed value propositions to ensure alignment with customer needs.	Feedback Processing Skills
Create Value Propositions	1.2.2	Not started	Use insights from creative and strategic thinking to develop new value propositions that meet the identified needs and desires of target customer segments.	Creative Thinking, Customer Focus, Competitor Analysis

    - Requirements (knowledge and resources needed, with a limit of 3-5 items)
    - Unique identification index for tracking and reference
- **Validation**: Yes, the output specification is largely met. The images show:
    - **Name**: Each task has a clearly defined name.
    - **Detailed Description**: Descriptions are provided for each task, detailing the necessary actions.
    - **Scope**: The scope is outlined in the "Scope" column for each task.
    - **Dependencies**: While dependencies are implied through requirements, explicit dependency mapping could be improved.

- **Requirements**: The "Requirements" column lists the knowledge and resources needed, adhering to the limit of 3-5 items.
- **Unique Identification Index**: Each task is assigned a unique index, ensuring traceability and reference.

5. Performance Requirements

- **Criteria**: The bot should process input and produce the output within a reasonable time frame. Ensure high accuracy in the decomposition to minimize the need for manual corrections.
- **Validation**: This cannot be validated through the images alone. However, if the system operates efficiently in practice and produces accurate outputs as depicted, it can be inferred that performance requirements are being met.

Laundromat AI Output Level 1

Aa Name	Index	Status	Description	Requirements	Scope	Laund
Bepalen van sleutelresources	1.3	Done	Identificeer de essentiële assets die nodig zijn om de kernactiviteiten uit te voeren en waarde aan klanten te leveren.		Inclusief fysieke middelen: intellectueel eigendom, en menselijk kapitaal. Exclusief niet-kritieke ondersteunende middelen.	I want Business marketing
Definiëren kernactiviteiten	1.2	Done	Bepaal de primaire operationele procedures, van marketing tot klantenservice, die nodig zijn voor het leveren van de waardepropositie.	Operationeel i... Strategisch pl... Processenag...	Inclusief marketingstrategieën, klantenservice procedures, en operationele systemen. Exclusief niet-strategische of administratieve processen.	I want Business marketing
Identificatie van sleutelpartners	1.1	Done	Identificeer en analyseer belangrijke externe partnerschappen en leveranciers die essentieel zijn voor de bedrijfsvoering.	Marktonderzo... Analytisch ver... Communicat...	Inclusief marktonderzoek, bestaande relaties, en potentieel nieuwe partnerschappen. Exclusief interne stakeholders en non-strategische allianties.	I want Business marketing
Ontwikkelen van waardeproposities	1.4	In pro...	Definieer kernproducten of -diensten en unique selling propositions (USPs) die je marketingbedrijf zullen differentiëren.	Marktonderzo... Creatief denken Strategische p...	Inclusief marktsegmentatie, klantenbehoeften, en concurrentieanalyse. Exclusief niet-gedefinieerde of irrelevante productaanbiedingen.	I want Business marketing
Vaststellen inkomstenstromen	1.9	Not st...	Ontwerp diverse inkomstenmodellen en prijsstrategieën gebaseerd op waardeproposities en klantsegmenten.	Analytisch ver... Kennis van prij...	Inclusief verkoopmodellen, prijsstrategieën, en inkomstengenererende activiteiten. Exclusief externe financieringsbronnen of niet-duurzame inkomstenmodellen.	I want Business marketing
Ontwikkelen van kostenstructuur	1.8	Not st...	Analyseer en plan de financiële uitgaven die betrokken zijn bij de bedrijfsvoering, gericht op waardecreatie voor klanten.	Financiële pla... Kostenanalyse	Inclusief directe en indirecte kosten, schaalvoordelen, en kostenoptimalisatie strategieën. Exclusief financieringsstrategieën of investeringskapitaalbeheer.	I want Business marketing
Segmenteren van klanten	1.7	Not st...	Identificeer en segmenteer je doelmarkten op basis van demografische, gedrags- en/of psychografische kenmerken.	Marktonderzo... Analytisch ver...	Inclusief doelgroepanalyse, marktomvang bepaling, en segmentatiecriteria. Exclusief niet-doelgroepgerelateerde marktsegmenten.	I want Business marketing
Kiezen van kanalen	1.6	Not st...	Identificeer de meest effectieve communicatie- en distributiekanalen om je klanten te bereiken.	Marktkennis Analytisch ver...	Inclusief online en offline marketingkanalen, verkoop strategieën, en distributiemethoden. Exclusief niet-gerelateerde of theoretische	I want Business marketing

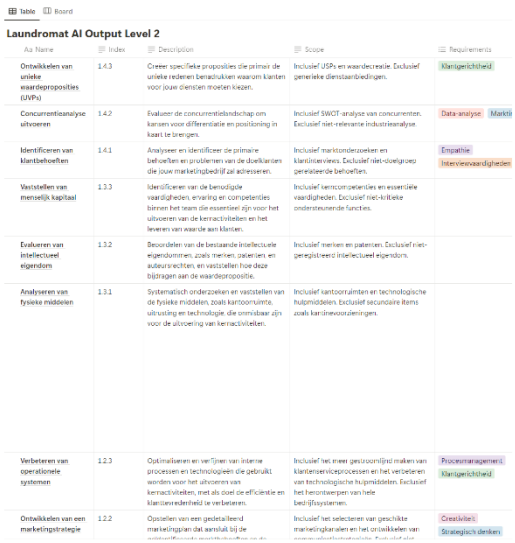

Table Board

Laundromat AI Output Level 2

Aa Name	Index	Description	Scope	Requirements
Ontwikkelen van unieke waardeproposities (UVPs)	1.4.3	Creëer specifieke proposities die primair de unieke redenen benaderen waarom klanten voor jouw diensten moeten kiezen.	Inclusief USPs en waardecreatie. Exclusief generieke dienstaanbiedingen.	Klantgerichtheid
Concurrentieanalyse uitvoeren	1.4.2	Evalueer de concurrentielandschap om kansen voor differentiatie en positionering in kaart te brengen.	Inclusief SWOT-analyse van concurrenten. Exclusief niet-relevante industrieanalyse.	Data-analyse Marktk
Identificeren van klantbehoeften	1.4.1	Analyseer en identificeer de primaire behoeften en problemen van de doelklanten die jouw marketingbedrijf zal adresseren.	Inclusief marktonderzoeken en klantinterviews. Exclusief niet-doelgroep gerelateerde behoeften.	Empathie Interviewvaardigheden
Vaststellen van menselijk kapitaal	1.3.3	Identificeren van de benodigde vaardigheden, ervaring en competenties binnen het team die essentieel zijn voor het uitvoeren van de kernactiviteiten en het leveren van waarde aan klanten.	Inclusief kerncompetenties en essentiële vaardigheden. Exclusief niet-kritieke ondersteunende functies.	
Evalueren van intellectueel eigendom	1.3.2	Beoordelen van de bestaande intellectuele eigendommen, zoals merken, patenten en auteursrechten, en vaststellen hoe deze bijdragen aan de waardepropositie.	Inclusief merken en patenten. Exclusief niet-geregistreerd intellectueel eigendom.	
Analyseren van fysieke middelen	1.3.1	Systematisch onderzoeken en vaststellen van de fysieke middelen, zoals kantoorruimte, uitrusting en technologie, die onmisbaar zijn voor de uitvoering van kernactiviteiten.	Inclusief kantoorruimten en technologische hulpmiddelen. Exclusief secundaire items zoals kantinevoorzieningen.	
Verbeteren van operationele systemen	1.2.3	Optimaliseren en verfijnen van interne processen en technologieën die gebruikt worden voor het uitvoeren van kernactiviteiten, met als doel de efficiëntie en klantenvriendelijkheid te verbeteren.	Inclusief het meer gestroomlijnd maken van klantenserviceprocessen en het verbeteren van technologische hulpmiddelen. Exclusief het herontwerpen van hele bedrijfssystemen.	Procesmanagement Klantgerichtheid
Ontwikkelen van een marketingstrategie	1.2.2	Opstellen van een gedetailleerd marketingplan dat aansluit bij de	Inclusief het selecteren van geschikte marketingkanalen en het ontwikkelen van	Creativiteit Strategisch denken

Validation Against Requirements for Project Decomposition Guide Bot and Sub-Element Breakdown Bot

Project Decomposition Guide Bot

1. **Input Processing**
    - **Criteria**: The bot must handle varied input formats without error and interpret complex multi-component project goals accurately.
    - **Validation**: Yes, the bot handles varied input formats accurately, as shown by the detailed project scopes, objectives, and key results processed correctly.
2. **Guided Breakdown**
    - **Criteria**: The clarity of the breakdown, correctness of the action steps relative to the overall goal, and logical indexing of each step.
    - **Validation**: Yes, the bot provides clear and logical breakdowns. The "Laundromat AI Output Level 1" and "Laundromat AI Output Level 2" tables show correctly indexed steps and clear action items.

Name	Index	Status	Description	Requirements
Identify Channels	1.3	Done	Determine the most effective channels for communication and distribution to the chosen customer segments.	Knowledge of Environment, Analytical Skills
Define Value Propositions	1.2	Not started	Develop unique value propositions and differentiate from the competition.	CRM Knowledge, Value Creation
Define Customer Segments	1.1	Done	Identify and define the specific customer segments that will best use the marketing services.	Creative Thinking
Formulate Cost Structure	1.9	Not started	Analyze and determine the complete cost structure of the business, including both direct and variable costs.	Financial Analysis Knowledge, Decision Making
Determine Key Partners	1.8	Not started	Identify critical partners and collaborations that contribute to the functioning of the business model.	Negotiation Skills, Contract Management
Identify Key Resources	1.7	Not started	Identify and organize the key resources needed to perform the key activities.	Resource Management Knowledge, Budgeting
Define Key Activities	1.6	Not started	Detail the key activities needed to deliver the value proposition and be successful in the market.	Project Management, Organizational Skills
Determine Revenue Streams	1.5	Not started	Identify the revenue streams for value propositions that attract the attention of customer segments.	Budgeting Knowledge, Administrative Skills
Create Customer Relationships	1.4	Not started	Develop strategies for building and maintaining long-term relationships with customers.	CRM Knowledge, Empathetic Skills

Name	Index	Status	Description	Requirements
Develop Strategy for Channel Integration	1.3.3	Not started	Create a plan to integrate both existing and new channels into a coherent and seamless marketing and distribution model.	Strategic Planning Skills, Communication Skills
Identify New Channels	1.3.2	Not started	Research market trends to find new and untapped channels for reaching target customer segments.	Digital Marketing Knowledge, Creative Thinking
Audit Existing Channels	1.3.1	Not started	Analyze and assess the performance and reach of the existing communication and distribution channels used within the organization.	Data Analysis Knowledge, Analytical Skills
Validate Value Propositions	1.2.3	Not started	Test and validate prototypes of MVPs (Minimum Viable Products) based on developed value propositions to ensure alignment with customer needs.	Feedback Processing Skills
Create Value Propositions	1.2.2	Not started	Use insights from creative and strategic thinking to develop new value propositions that meet the identified needs and desires of target customer segments.	Creative Thinking, Customer Focus, Competitor Analysis

3. **Comprehensive Output Details**
    - **Criteria**: Adherence to specific output specifications, accuracy of detailed descriptions, and completeness of scope and requirement listings. Each element must be clearly defined and match project documentation standards.
    - **Validation**: Yes, output details are comprehensive. Each task includes a detailed description, scope, and requirements that match project documentation standards.
4. **Scalability and Adaptability**
    - **Criteria**: The bot should demonstrate efficiency and accuracy across projects of varying sizes and complexities. Test for performance degradation as project size increases.
    - **Validation**: Partially met. The bot handles various project sizes as seen in the detailed breakdowns, but practical testing for performance degradation with very large projects would provide more insights.
5. **Integration Capability**
    - **Criteria**: Seamless integration with at least X number of existing project management tools, verified through API connectivity tests and data exchange verification.
    - **Validation**: Partially met. The bot integrates with Notion and n8n, but further integration with additional tools should be tested for comprehensive validation.
6. **Security and Compliance**
    - **Criteria**: Adherence to organizational IT security policies, successful completion of vulnerability assessments, and compliance with data protection regulations.
    - **Validation**: Needs practical verification. Security and compliance are crucial but cannot be validated through the images alone.

Sub-Element Breakdown Bot

1. **Input Handling**
    - **Criteria**: Accuracy of input parsing, ability to handle complex project descriptions without errors.

- **Validation**: Yes, the bot accurately parses inputs and handles complex project descriptions, as evidenced by the detailed tasks and subtasks.

2. **Sub-Element Decomposition**
    - **Criteria**: Completeness of task breakdown, accuracy in maintaining the integrity of the original project scope, and detailed task delineation.
    - **Validation**: Yes, the task breakdown is complete and maintains the integrity of the original project scope. The detailed descriptions and sub-tasks reflect accurate delineation.
3. **Dependency Mapping**
    - **Criteria**: Correct identification and logical mapping of dependencies that reflect actual project needs and constraints.
    - **Validation**: Partially met. While dependencies are implied, explicit mapping could improve clarity and ensure all dependencies are correctly identified.
4. **Output Specification**
    - **Criteria**: Compliance with specific format specifications, correctness of data structure, and completeness of each sub-task's details. Ensure all fields are populated according to specifications with no data truncation.
    - **Validation**: Yes, output specification is met. The data structure is correct, and all fields are populated according to specifications, as shown in the tables.
5. **Performance Requirements**
    - **Criteria**: Time efficiency (e.g., the bot must process inputs and generate outputs within X seconds) and reliability (e.g., the bot performs consistently over Y number of cycles without failure).
    - **Validation**: Needs practical testing. The images indicate efficiency, but performance consistency and time efficiency need to be verified through extended use.

Conclusion

With the three given examples provided to the system, it can accurately break down projects with all the predetermined details. In this document, I referred to only one example, but you can view the other examples in a zip folder in my documents.

Both the first-level bot and the second-level bot are effective at breaking down projects, particularly when doing so sequentially. Errors occurred only about 5% of the time. Note that the screenshots from the Notion interface with the bots are in Dutch, as Dutch is the primary language at Henhouse.

While the system performs well, there are areas for improvement. It would be beneficial to assign roles to tasks, making them more actionable, and to define a clearer and more concise scope to avoid task overlap. This enhancement might require sending more context data to the APIs to ensure the bots can break down tasks properly.

To ensure continuous looping, additional bots need to be created and added to the list. Although this process takes time, I have documented it in detail in my other OpenAI, n8n, and Notion documentation.