Capstone Project 2

CMU-SE 451

Product Backlog

Version 1.0 Date:

19/03/2024

Intelligence IT Job Finding - The Recruitment System support with Chatbot

Submitted by

Duyet, Pham The

Dat, Nguyen Thanh

Tri, Le Minh

Tuan, Nguyen Anh

Approved by

Hoang, Nguyen Thai

Proposal Review Panel Representative:

Name	Signature	Date
.	_____	19-Feb-2024

Capstone Project 1 - Mentor:

Name	Signature	Date
.		
Hoang, Nguyen Thai	_____	19-Feb-2024

Project Information

Project acronym	IIJF		
Project Title	Intelligence IT Job Finding		
Start Date	15th Feb 2024	**End Date**	27th May 2024
Lead Institution	International School, Duy Tan University		
Project Mentor	Mr. Hoang, Nguyen Thai		
Project Manager & contact details	Tuan, Nguyen Anh Email: tuanquynh1111050102@gmail.com Tel: 0975523135		
Partner Organization	Duy Tan University		
Project Web URL			
Team members	**Name**	**Email**	**Tel**
26211242012	Dat, Nguyen Thanh	nguyendat16111210@gmail.com	0788691936
26211235098	Tuan, Nguyen Anh	tuanquynh1111050102@gmail.com	0975523135
26211229940	Tri, Le Minh	leminhtri2002@gmail.com	0395967905
26211233669	Duyet, Pham The	duyetpham322@gmail.com	0705235603

Proposal Document

Document Title	Product Backlog		
Reporting Period			
Author(s) & project	Tuan, Nguyen Anh		
Role	Dat, Nguyen Thanh	Member	
	Tri, Le Minh	Member	
	Duyet, Pham The	Member	
Date	Mar 19th 2024	Filename	ProductBacklog_v1.0
URL			
Access	Project and CMU Program		

Version	Date	Comments	Author	Approval
1.0	19/03/2024	Initial Release	All members	

TABLE OF CONTENTS

1   Introduction

The agile product backlog in Scrum is a prioritized features list, containing short descriptions of all functionalities desired in the product. When applying Scrum, it's not necessary to start a project with a lengthy, upfront effort to document all requirements. Typically, a Scrum team and its product owner begin by writing down everything they can think of for agile backlog prioritization. This agile product backlog is almost always more than enough for a first sprint. The Scrum product backlog is then allowed to grow and change as more is learned about the product.

1.1 Purpose

Provide a prioritized features list, containing a short description of all functionalities desired in the product.

Lists everything that the product owner and Scrum team feels should be includedin the software they are developing.

1.2 Scope

- Lists the user's role.

- Write all the user's requirements.

- Lists some main functions of the system.

- Short description of all the functionality desired in the product.

- Given the priority of each feature and function of the product.

1.3 References

No	Source	Note
1	https://www.visual-paradigm.com/scrum/what-is-product-backlog-in-scrum/	What is Product Backlog in Scrum? Who Responsible forIt?
2	https://www.scrum-institute.org/The_Scrum_Product_Backlog.php	The Scrum Product Backlog -International Scrum Institute

2 Product Backlog

2.1 Product Backlog Items

ID	Theme	As a	Priority
PB01	Chat with Chatbot on the web application	Admin	H
PB02	Dashboard view	Admin	H
PB03	Interact with the chatbot to receive approriate suggestions	Candidate	H
PB04	Create RASA Chatbot Dashboard	Admin	M
PB05	Rules Management	Admin	H
PB06	Stories Management	Admin	H
PB07	Respones Management	Admin	H
PB08	Intents Management	Admin	H
PB09	Job posting management	Employer	H
PB10	Employer management	Admin	M
PB11	Candidate management	Admin	M
PB12	Job application management	Admin	M
PB13	Job apply	Candidate	H
PB14	Find all information with chatbot	Candidate	H
PB15	Message	Candidate	H
PB16	Decoration Company	Employer	M
PB17	Comment	Candidate	M
PB18	Forum	Candidate	M

PB19	Category management	Admin	M
PB20	Interview schedule	Employer	M
PB21	Test Quizz	Candidate	M
PB22	Chat with Chatbot on the web application	Candidate	H
PB23	Job categories	Candidate	M
PB24	Handle hyprid between tools and handling	Admin	M
PB25	Evaluate suitable job	Candidate	H
PB26	Employer registration	Employer	H
PB27	Dashboard view	Employer	H
PB28	Manage CV and Candidate	Employer	H
PB29	Evaluate Suitable CV	Employer	H
PB30	Interview schedule	Candidate	M

2.2   Product Backlog Specification

Priority and Estimates

Priorities are set from high (H), medium (M) and low (L):

Priorities of some user stories can be the same with others.

If a user story has dependencies, it must have lower priority than its dependencies.

VERSION 1: Smart Recruitment System

ID	Theme	As a	I want to	So That	Priority	Estimate (hour)
PB01	Chat with Chatbot on the web application	Admin	Chat with Chatbot	I can control answer of chatbot	H	4

PB02	Dashboard view	Admin	Access a dashboard view of activity	I can monitor system-wide performance	H	8
PB03	Interact with the chatbot to receive approriate suggestions	Candidate	Interact with the chatbot	I can find approriate IT Company or technology with me	H	8
PB04	Create RASA Chatbot Dashboard	Admin	Create RASA Chatbot Dashboard	Create RASA Chatbot Dashboard	H	8
PB05	Rules Management	Admin	View and manage rules of chatbot	View and manage rules of chatbot	M	8
PB06	Stories Management	Admin	View and manage stories of chatbot	I can control the stories with intent, action,…	M	8
PB07	Respones Management	Admin	View and manage respones of chatbot	I can control the answers which the chatbot provides	M	8

| PB08 | Intents Management | Admin | View and manage intents of chatbot | I can control the scenarios that users can enter to search | M | 8 |

Table 1: Product Backlog Specification (Sprint 1)

ID	Theme	As a	I want to	So That	Priority	Estimate (hour)
PB09	Job posting management	Employer	Manage job posts	I can add, update and delete Job posts	M	12
PB10	Employer management	Admin	View and manage employer profiles	I can manage employer accounts	M	8
PB11	Candidate management	Admin	View and manage candidate profiles	I can monitor candidate applications	M	8
PB12	Job application management	Admin	View and manage job applications and candidate profiles	I can monitor the hiring process and candidate details	M	8
PB13	Job apply	Candidate	Create, edit, and delete job	I can advertise open positions	H	12

ID	Theme	As a	I want to	So That	Priority	Estimate (hour)
			postings			
PB14	Find all information with chatbot	Candidate	Find all information with chatbot	I can know useful inoformation about IT industry	M	8
PB15	Message	Employer	Send and receive messages with candidates	I can communicate with potential hires	M	16

Table 2: Product Backlog Specification (Sprint 2)

ID	Theme	As a	I want to	So That	Priority	Estimate (hour)
PB16	Decoration Company	Employer	Decorate Company	I can add new images, banner… of company	M	8
PB17	Comment	Candidate	Comment	I can discuss about IT Company with everyone	M	8
PB18	Forum	Candidate	Ask question or answer the question	I can know many information and receive advice from people	M	8
PB19	Category management	Admin	Create, edit, and delete job categories	I can organize job listings effectively	M	8

PB20	Interview schedule	Employer	Schedule interviews with candidates	I can plan and coordinate the hiring process	M	8
PB21	Test Quizz	Candidate	Make test quizz	I can know how suitable for the job	M	20
PB22	Chat with Chatbot on the web application	Candidate	Log in using social media credentials	I can quickly access my account	M	4
PB23	Job categories	Candidate	View and filter list jobs by categories	I can filter my job by categories	M	20
PB24	Handle hyprid between tools and handling	Admin	Handle hyprid between tools and handling	I can solve the problem of chatbot collecting new information	M	4
PB25	Evaluate suitable job	Candidate	See my suitability for the job	I can view detailed match percentage, radar chart on skills, experience, salary, other factors and	H	8

Table 3: Product Backlog Specification (Sprint 3)

ID	Theme	As a	I want to	So That	Priority	Estimate (hour)
PB26	Employer registration	Employer	Register a new employer account	I can access and use the employer features	H	12

PB27	Dashboard view	Employer	Access a dashboard with an overview of activity	I can monitor the company's performance	H	16
PB28	Manage CV and Candidate	Employer	View and manage candidates who applied to the company	I can evaluate and hire suitable candidates	H	12
PB29	Evaluate Suitable CV	Employer	See my suitability for the CV	I can view detailed match percentage, radar chart on skills, experience, salary, other factors and which skills are lacking	H	8
PB30	Interview schedule	Candidate	View interview schedules	I can prepare for and attend interviews	M	8

Table 4: Product Backlog Specification (Sprint 4)

3 Challenges

No.	Challenge	Condition
1	Time	The project must be completed within 4 months.
2	Budget	Budget limit $4600
3	Human Resources	Team limit with 4 members and 1 mentor develops the system.
4	Technical	Apply many new current technique
5	Requirements	Follow owner requirements and market

4 Stakeholders and User Description

No.	Name	Description	Role
1	Candidates	Job seekers applying for roles	Create and manage their profiles, search for job listings, apply to jobs, and communicate with employers
2	Employers	Employers looking to hire	Create and manage company profiles, post job listings, review candidate applications, and communicate with candidates
3	Administrator	Recruitment website administrator	Manage all user accounts, backup data and maintain the system