

DEVELOPMENT OF A TOOL FOR PREDICTION OF RARE DISEASES BASED ON PATIENT SYMPTOMS

By

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Mandatory Assignment 1
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1 Answer part one

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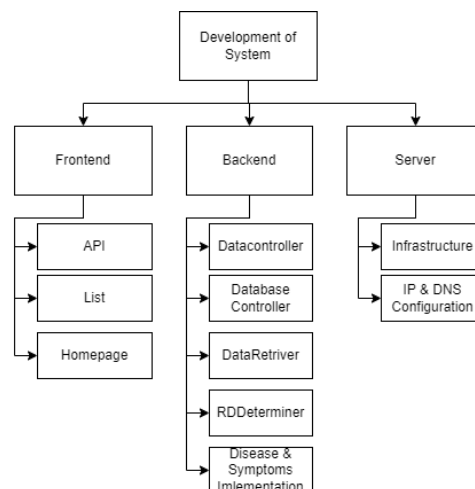
1 Answer part one

Stakeholder	Interest
General Practitioners	They are our target demographic as they use the service to provide better healthcare to their clients. Developing our program will be able to increase the confidence of their diagnoses.
Developers	They are interested in it because their business and thereby wages depends on it, delivering a good product could gain them good advantages when it comes to income and or future job prospects.
Healthcare companies	The companies that hires the General Practitioners are the one who will most likely be paying for our service, their interested is whether this will earn them more revenue either in the long run or short term.

In this project, the group are using a Top-Down estimation process because of the following reasons:

- It's the first time the group develops a project for healthcare and thereby don't know completely what is involved yet.
- It's a small project and the group only have two developers, the scope of the project is small.
- There is no contract involved.
- There is no current customer, only general practitioners who have offered to guide and therefore no details are needed for the customers.

For the development of the product, it is split up in 3 section in the WBS, Frontend, Backend and server.



Task	Dependency	Estimated Time (hours)
ISymptom		
Region		
IDisease		
Symptom	ISymptom, Region	
Disease	IDisease	
DatabaseController	Disease, Symptom	
DataController	DatabaseController	
DataRetriver	DatabaseController	
IDeterminer		
RDDeterminer	IDeterminer, DataRetriver	
API	DataController	
Homepage		
Infrastructure		
IP & DNS	Homepage	

Slut: 28.April

	Project Overview Statement	Rare disease Predictor		Simon dos Reis Spedsbjerg
Problem/Opportunity	We see a risk that a healthcare professional might miss certain rare conditions a patient might suffer from, because the rarity and lack of knowledge makes it so the doctor or nurse might not suspect it and thereby miss it.			
Goal	To develop an application that will help the health care professional to deduce whether a patient suffers from a rare disease			
Objectives	<ul style="list-style-type: none"> • Develop a Backend system to calculate diseases based on symptoms • Develop a Frontend to allow interaction from any computer • Establish a server to host a beta version • Deploy public version 			
Success Criteria	<ul style="list-style-type: none"> • The system can predict diseases based on given symptoms • The system is positively received by general practitioners • The system is being used by general practitioners 			
Assumptions, Risks, Obstacles	<ul style="list-style-type: none"> • All general practitioners have access to the internet • Server Errors might occur • Some general practitioners don't have the required computer knowledge to use the system 			
	Simon Spedsbjerg	07 – 03 – 23		

Read stuff from[Larson2021].