# MediShare

GROUP 4

# Problem Definition & Background Information

- Misuse of medication and paper waste are two of today's most serious issues.

- The E-sağlık system has been in use since 2005. Even though it is an effective system, it has some shortcomings.

## Objectives

- Keeping a record of the prescribed medication and recording it quickly in the system.
- Making sure that only authorized people can access the system, prescribe and monitor medication.
- Letting the user know about the intake frequency and side effects of the recorded medicines.
- Keeping the health record up-to-date by establishing a connection with electronic health systems.
- Preventing paper waste by reducing the labels used on medicines.
- Preventing medication use at the wrong time or not taking medication on time.
- Helping patients quickly and accurately find answers to their medical questions.

# Functional Requirements

1. Prescription Management

2. Account Management

3. Medication Information

4. Medication Reminder System

5. Live Support System

6. Educational Resources

7. Premium Membership for Companies

8.QR Code Integration

# Non-Functional Requirements

1. Security 6. Accessibility

2. Reliability 7. Compliance

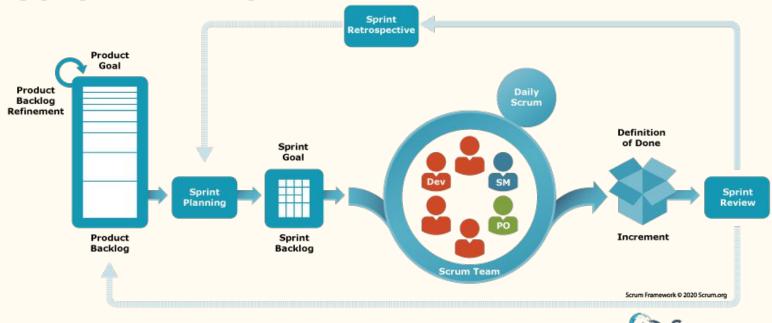
3. Scalability 8. Integration with E-Health Systems

4. Usability 9. Customer Support

5.Performance 10.Access Control

#### Process Model

#### **SCRUM** FRAMEWORK

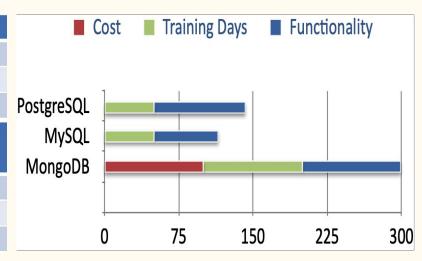




#### SOFTWARE TOOLS

#### Database Management

Tool	PostgreSQL	MySQL	MongoDB	
Cost	0 US\$	\$0.24	57 US\$	
Training Days	30	30	60	
Functionality	65	45	70	
Tool	PostgreSQL	MySQL	MongoDB	
Tool (Normalized)	PostgreSQL	MySQL	MongoDB	
F. S. S. S.	PostgreSQL 0	MySQL 0.42	MongoDB 100.0	
(Normalized)				



#### SOFTWARE TOOLS

#### Analytics and Reporting

Tool	Excel	SAS	Tableau
Cost	0 US\$	10000 US\$	900 US\$
Training Days	5	30	15
Functionality	60	80	70
Tool	Excel	SAS	Tableau
Tool (Normalized)	Excel	SAS	Tableau
Control of the Contro	Excel 0	100.0	Tableau 0.09
(Normalized)	200.000		

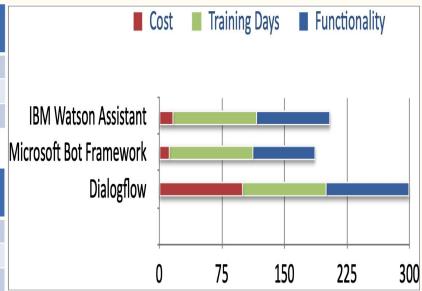


#### SOFTWARE TOOLS

#### Live Support

Tool	IBM Watson	Microsoft Bot	Dialogflow		
	Assistant	Framework			
Cost	1680 US\$	1188 US\$	10000 US\$		
Training Days	20	20	20		
Functionality	70	60	80		

Tool	IBM Watson	Microsoft Bot	Dialogflow
(Normalized)	Assistant	Framework	
Cost	16,80	11,88	100.0
Training Days	100.0	100.0	100.0
Functionality	87.5	75	100.0



#### Software Measurements

2. Number of Errors

3.Lines of Code

4. Time Spent on Project

5. Number of Methods Added in that Sprint

6. Number of Added Requirements

7. Time Spent on Sprint Retrospective

8. Number of Git Commits

9. Stakeholder Reviews

#### Stakeholders

1.Doctors 6.Pharmaceutical Manufacturers

2. Nurses 7. Doctor Supervisors

3. Hospital Receptionists 8. Lawyers

4. Patients 9. Developers

5.Pharmacists 10.Government

#### Software Needs

1. Version Control

2.Languages

3.Database

4.IDE

5.Dialogflow

6.Documentation

7. Statistic

8. Communication

## Hardware Needs

1.Server

2.Network

# Support Needs

- 1. Technical Support
- 2. Training Support
- 3. Stakeholder Support

## Risks

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2.Data Loss 7.Design Complexity

3.Rate of Bugs 8.Project Expansion

4. Change in Requirements 9. Change in Laws

5.Budget 10.Tools

# Gantt Chart

D		Task Mode	Task Name	Duration	Start	Finish	May 24 Jun 24 Jul 24 Aug
1	0	A <sub>K</sub>	Project Planning	B days	Mon 15.04.24	Tue 23.04.24	15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29 5
2		NF.	Background Information	3 days		Wed 17.04.24	
3		N.P.	Listing stakeholders	1 day	Thu 18.04.24	Thu 18.04.24	
4		ra <sup>th</sup>	List Risk and needs	1 day	Fri 19.04.24	Fri 19.04.24	式
5		NP.	Select measurements	2 days	Sat 20.04.24	M on 22.04.24	T. T
6		Apr.	Review plan	1 day	Tue 23.04.24	Tue 23.04.24	T T
7		A.	Requirements Gathering	7 days	Wed 24.04.24	Thu 2.05.24	
8	-	78	Schedule meetings	2 days	Wed 24.04.24	Thu 25.04.24	· ·
9		NP.	Talk to doctors	2 days	Fri 26.04.24	M on 29.04.24	<b>2</b>
10		40	Talk To patients	1 day	Tue 30.04.24	Tue 30.04.24	<b>E</b> ,
11	1	NP.	talk to pharmacists	I day	Wed 1.05.24	Wed 1.05.24	式
12		NP.	List Requirements	1 day	Thu 2.05.24	Thu 2.05.24	i i
13		pr <sup>th</sup>	Design And Architecture	21 days	Fri 3.05.24	Fri 31.05.24	
14		NP.	System Architecture	14 days	Fri 3.05.24	Wed 22.05.24	
15		N. P.	User Interface	7 days	Thu 23.05.24	Fri 31.05.24	-
16		NP.	Development	182 days	Mon 3.06.24	Tue 11.02.25	4
17		NP.	Testing	168 days	Fri 21.06.24	Tue 11.02.25	
18		No.	Sprint 1: Database	182 days	Mon 3.06.24	Tue 11.02.25	Ç
19		A.	Design And Architecture	14 days	Mon 3.06.24	Thu 20.06.24	
20		op.	Implementation	21 days	Fri 21.06.24	Fri 19.07.24	
21		NP.	Recover Old data	7 days	Mon 22.07.24	Tue 30.07.24	

# Gantt Chart

1.		Tank Mode	Task Name	Ou ratto n	tarr	inst	Nug 24   Sep 24   Oct 24   Nos 24   Oct 24   Inc 25   Seb 25   Mar 25   Seb 25   Nar 25   N
22		7	Sprint 2: User Authentication	21 days	Wed 31.07.24	Wed 28.08.24	
21		4	Back-end logic	10 days	Wed 31.07.24	Fue 13.08.24	
26		4	Access control system	11 days	Wed 14.08.24	Wed 28.08.24	
25		4	Sprint 3: Prescription and Medicine System	42 days	Thu 29.08.24	fri 25.10.24	
26		*	Prescription and Record System	35 days	Thu 29.08.24	Wed 16.10.24	
27		70	Reminders System	7 days	Thu 17.10.24	Fri 25.10.24	<b>=</b>
28		4	Sprint 4: Live Support	35 days	Mon 28.10.24	Fri 13.12.24	1
28		4	Dialogflow training	21 days	Man 28.10.24	Man 25.11.24	
10		+	Implementation	14 days	Tue 25, 11, 24	Fri 13.12.24	
11		*	Sprint 5: Monitoring System	21 days	Mon 16.1 2.24	Mon 13.01.25	
12		4	Define imagularities	7 days	Man 15.12.24	Tue 24.12.24	
12		3	Implement manitaring system	14 days	Wed 25.12.24	Man 13.01.25	
36	1	4	System Testing	21 days	Fue 14.01.25	Fue 11.02.25	1
15	1	3	Deployment	7 days	Wed 120225	Thu 20.02.25	1
36	1	-	Training Medical staff	7 days	Fri 21.02.25	Man 3.03.25	
11		4	User acceptance Testing	7 days	Tue 4.03.25	Wed 12.03.25	4
10	1	7	Launch .	2 days	Thu 13.03.25	Fri 14.03.25	1