



## Medical Channeling Center Management System

CS29

# Some Functionalities of Our System

## Online appointments

- Patient can set online appointments.
- Employee can view and create appointments.
- Admin can allocate extra appointment slots, free appointment slots.

## Live Channeling assistance to Doctors and Nurses.

- Online lab requests
- E-prescription
- Patient medical analysis
- Medical reports soft copies

## Medicine order processing

- Online medicine orders
- Can process E-prescription
- Prescription soft copies
- Medicine delivery management

## Laboratory reports

- Laboratorists can prepare medical reports template.
- Take online lab test requests.

## Report generation

- Doctors can check their income.
- Admin can view summary reports
- Patient medical analysis

# Stakeholders



Patient



Doctor



Receptionist



Nurse



Pharmacist



Delivery Rider



Admin

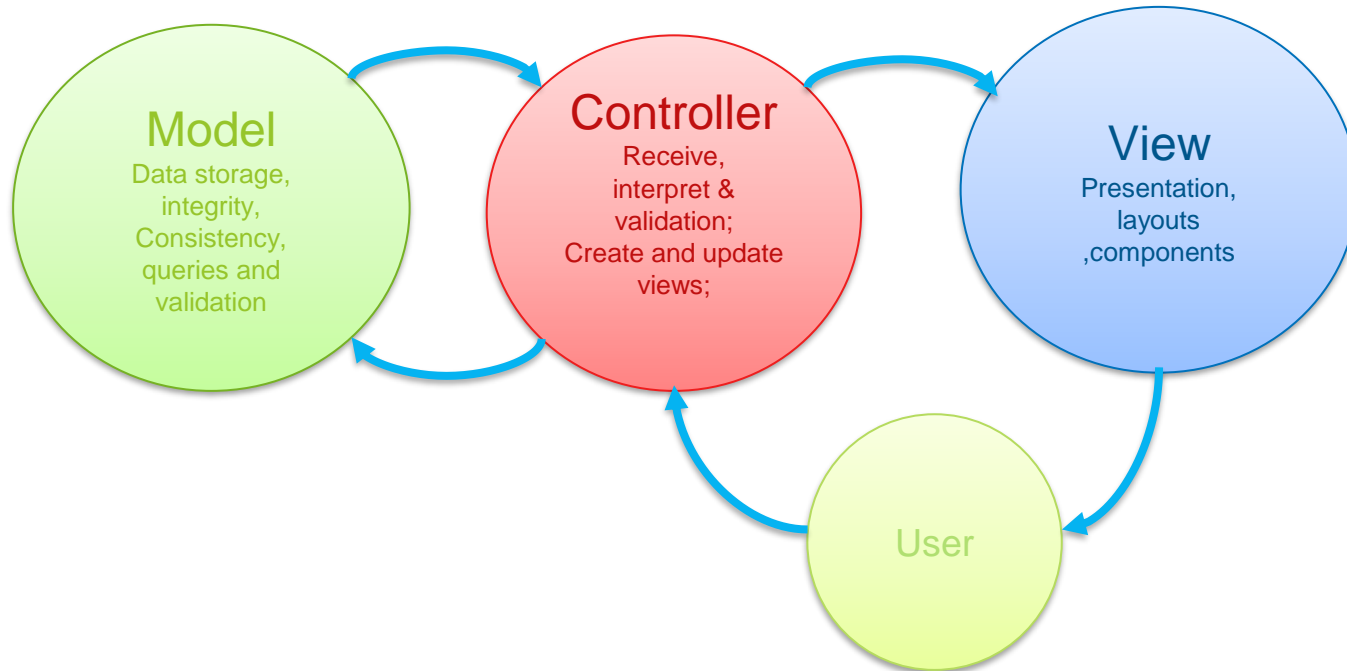


Laboratory Employee



# Architecture

## MVC



# Technologies to be Used



Google Cloud Service for  
Webhosting



Getshoutout.com for SMS  
Gateway

# Technologies to be used

## Back End development

PHP



## Front End Languages

HTML



CSS



JavaScript



## Database Management System

MySQL



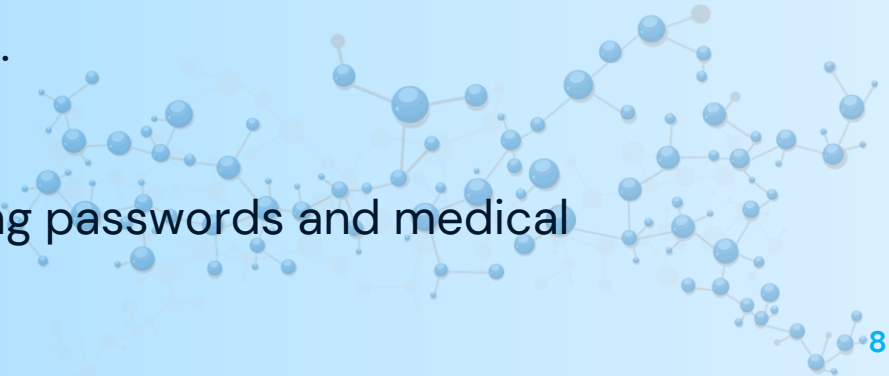
# Remaining tasks

- Finalizing the MVC framework using PHP with protected routes.
- Developing channeling assistance system.
- Building online medical ordering system.
- Developing system to create custom lab report template.
- Developing online appointment system.
- Integrating payment gateway sandbox.
- Testing and deployment



# Quality Assurance

- Role based access control
- Sanitizing and validating input data.
- Good coding practices.
- Use of design patterns.
- Use of project management tools.
- Use of central repository(GIT).
- Database normalization.
- Use of Encryption when storing passwords and medical reports.





# Schedule Feasibility and Testing Plan

Number	Phases of Model	Completeness	July				August				September				October				November				December				January				February				March				April				May				June			
			Week				Week				Week				Week				Week				Week				Week				Week				Week				Week				Week							
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								
1. Requirement Engineering	Requirement Gathering	100																																																
	Requirement Analysis																																																	
	Scope Identification																																																	
	Feasibility Study																																																	
	UML Diagram																																																	
	Creating Project Proposal																																																	
2. System Design	UI Design																																																	
	Database Design																																																	
	Preparing for interim presentation																																																	
3. Implementation																																																		
4. Testing	Unit testing																																																	
	Integrated Testing																																																	
	System Testing																																																	
	Acceptance Testing																																																	
5. Deployment																																																		
6. Maintenance																																																		
7. Final Presentation Preparation																																																		
8. Final Presentation																																																		

# Overall Project Progress

MVC Framework  
95%

Database  
100%

UI Design  
100%

Registration and  
Login for all Users

System  
Development  
Creating user->Schedule  
Channeling->Setting Appointment

Unit Testing

# Demonstration

What We have developed so far

# Demonstration

Glimpse at code base

- MVC architecture
- Factory pattern
- Unit testing

**THANK YOU !**