### **COVIDSafe**

### Group 28

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### Introduction





#### COVID-19

• 45.5M confirmed, 1.19M death worldwide

#### "Good Performers":

• Korea, Australia, China ......

#### The Others:

• USA, UK .....

#### The difference?

- Restrictions on social activities
- Compulsory quarantining on passengers
- Encourage for mask wearing

Minimize face-to-face contacts!

### Motivation

## To minimize face-to-face contacts

### Digitalisation for:

- Quarantining Management
  - o E.g. Patients Check-in
- Appointment Management for Testing
- Patients' Condition Detection for Doctor

### Solution

#### Benefits

- Doctors can have a clear understanding of the patients they are responsible for and can better monitor the patient's condition.
- Patients can make appointments in time to improve efficiency. And they can pay more attention to their health when filling in daily information.

#### **Development phases**

- Demand analysis
- Function design
- Technical selection and improvement
- Code implementation
- Project evaluation and improvement

#### Milestone

- Proposal defined
- Bate release
- Final release

Phase 3				
Task 1	Make modifications	100%	10/16/20	10/23/20
Task 2	Implement additional features	100%	10/24/20	10/31/20
Task 3	Unit Test	40%	11/1/20	11/3/20
Task 4	Final test	10%	11/4/20	11/6/20
Milestone	Final Release		11/7/20	

### Features - Patient

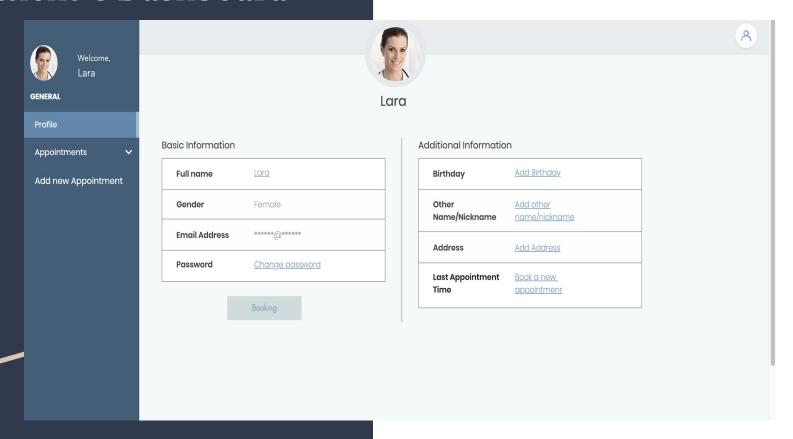
#### Patients' features

	Information	Health Service
Patient	Register and login.	Appointment request and cancel.
	Change personal profile	Daily condition check-in.

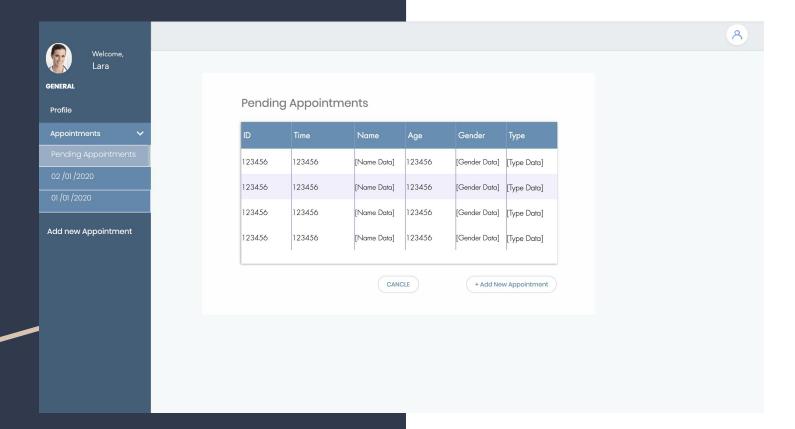
### Main functions of patients:

- Account Management for Patient
- Appointment Management for Patient
- Daily check-in

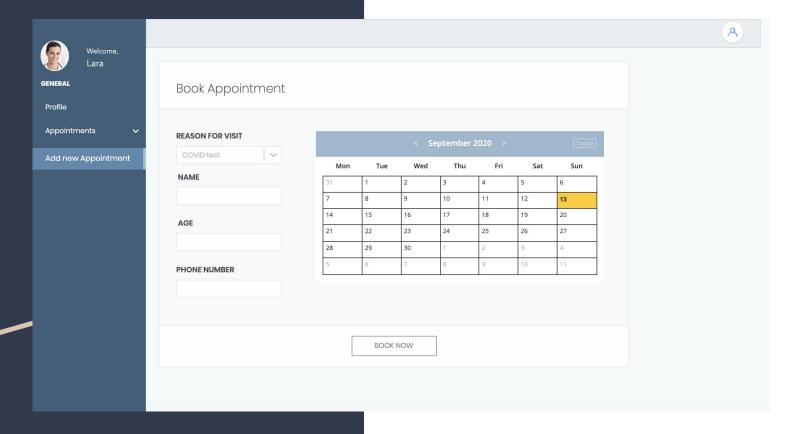
### Patient's Dashboard



### Patient's Appointment



### **Booking Appointment**



### Daily Check-in

- Temperature
- Places visited today
- Some yes/no questions about body condition

### Feature - Doctor

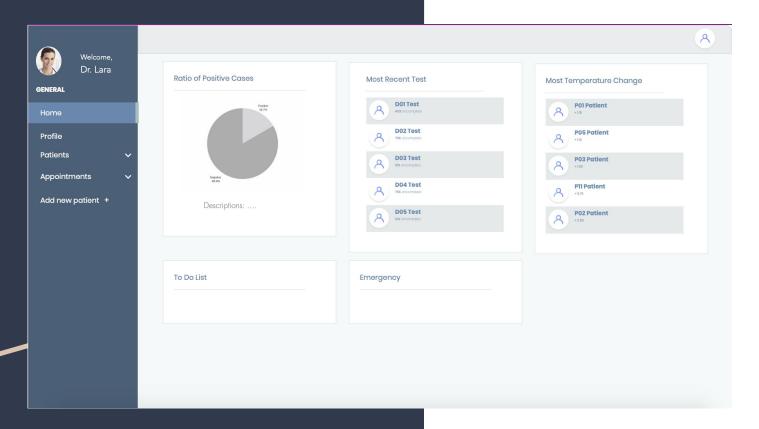
#### Doctor's functions

	Information	Health service
Doctor	Register and login. Change personal profile.	Appointment management.  Monitor patient's condition.

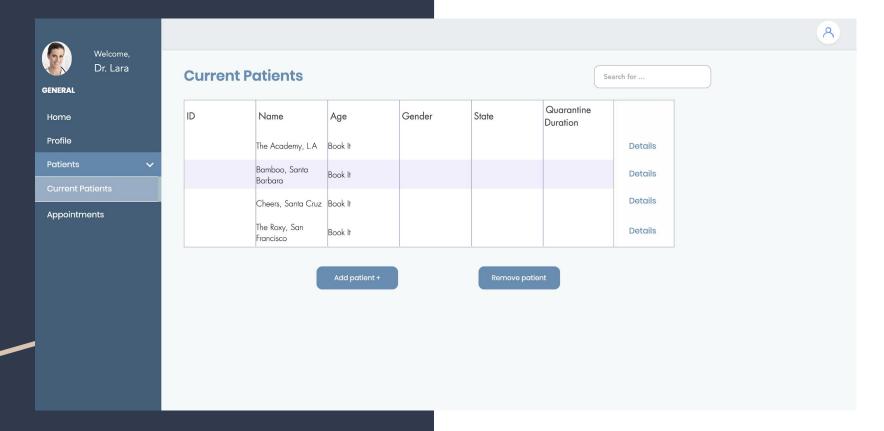
### Main functions of patients:

- Account Management for Doctor
- Appointment Management for Doctor
- Monitoring for Patients' Conditions

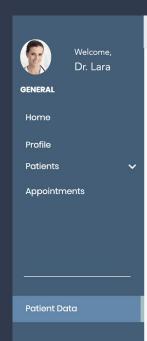
### Dashboard

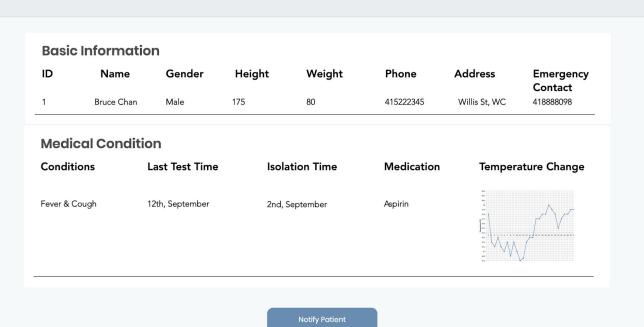


### Patient List



### Patient Details





### Technology/ Implementation

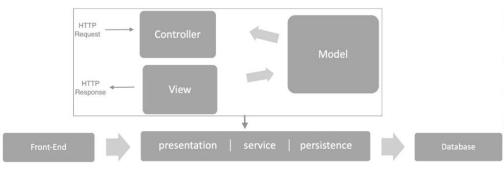
#### **Technologies:**

**Controller:** Java, Spring framework

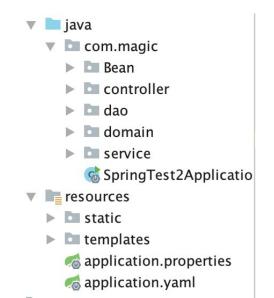
**Model:** MySQL database, Hibernate framework

View: HTML, CSS, JavaScript, React framework

#### **MVC** Architecture



#### **Document Structure**



### Responsibilities

#### **Functional Requirements**

	Information	Health Service
Patient	Register and login	Appointment request and cancel
	Change personal profile	Daily condition check-in
Doctor	Register and login	Appointment management
	Change personal profile	Monitor patients' condition

#### Major features & Division of labor

#### Doctor:

- Account Management for Doctor (Chang Zhao)
- Appointment Management for Doctor (*Kexin Li*)
- Monitoring for Patients' Conditions (Yuan Yao & Qiang Qu)

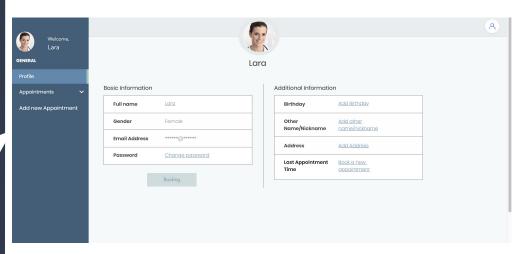
#### Patient:

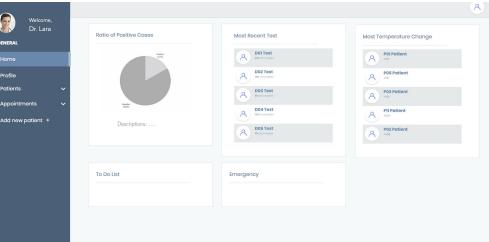
- Account Management for Patient (Qiangyu Zheng)
- Appointment Management for Patient (WeiPeng Cui)
- Daily check-in (Shuyao Ma)

### Interfaces

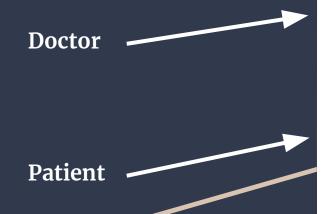
Patient Dashboard

**Doctor Dashboard** 





### Expected Outcome



#### Doctor Side:

- This system collects and manages patient's data automatically;
- Doctors' can locate the most vital problems immediately and alert patients conveniently.

#### Patient side:

- Patients have a platform to update their body condition every day;
- Receive doctors suggestions without seeing them to avoid unnecessary meetings

### Conclusion

### **Functions**

- Account management
- Appointment management
- Information reporting

### **Technologies**

- React.js
- Spring
- Hibernate
- SQL

# Thank you for listening

#### Reference

[1] COVID 19 info.live. (2020). Available from: <a href="https://covid19info.live/">https://covid19info.live/</a>

[2] The Telegraph. (2020). Patients may have to wait a year for hip or knee operations. Available from: <a href="https://www.telegraph.co.uk/news/2020/06/28/patients-may-have-wait-year-hip-knee-operations/">https://www.telegraph.co.uk/news/2020/06/28/patients-may-have-wait-year-hip-knee-operations/</a>

[3] West M, Coia DD. Caring for doctors Caring for patients. General Medical Council Online, 2019. [2020]. Available from:

https://www.gmc-uk.org/-/media/documents/caring-for-doctors-caring-for-patients\_pdf-80706341.pdf