

# Healthcare Information Management

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# Description



- The ABC HealthCare Information Management application will help to improve clinical outcomes and operational efficiency with healthcare IT solutions.
- Patient and doctor involvement will create an effective patient engagement strategy to strengthen relationships, meet meaningful use criteria and improve patient outcomes. This will help to track, maintain and edit healthcare records in efficient and timely manner.

# Features



- User sign up (Authenticate user)
- Authorization (doctors need to authorize themselves before accessing information) - This feature would enable the application to grant specific privileges to users and present the screens accordingly.
- Edit data( by doctors) and readable to patients - Based on the authorization rules, doctors would be able edit their patient's data and patients would only be able view it.
- Encryption to user's sensitive information - This feature would enhance the security aspect of the application so that the sensitive information for user stays private and secured.

# Planning user stories.



- Landing Page - The landing page of ABC HIM website is a general information of online healthcare services and it's benefits.
- Login Page - The login page asks an existing user for login id and password. The login page also has a link to signup page for new users.
- There would be two kind of users to access the website one will be healthcare providers (doctors, nurse practitioners etc.) doctor will login to access information of his/her patient's health progress and health reports. And patient will login to access his/her personal as well as health care information.

# Planning user stories continued.



- Doctor's landing screen - Doctor can pull his patient's information using search criteria such as patient's name, patient Id or category group. Search results should display a hyperlink to patient's name, Id or group which will redirect user to specific patient's information page.
- Patient's landing screen - Patient can see the information related to his/her personal information such as, name, age, gender, height, weight and health information such as, health reports, doctors note and suggestion, medicines, appointments etc.

# Planning DB and Models



- Doctor's Landing
- Patient's Landing
- Users
- Userlogin
- UserType
- UserDao
- UsertypeDao

# Technologies



- Java
- Spring MVC
- MySQL
- Thymeleaf templates
- Bootstrap
- Spring Security

# What I Learned.



- Implementation of encryption techniques practically.
- User authorization logic in a Spring MVC application so that some fields can only be edited by privileged users.
- How to Authenticate user of particular kind.



# What's Next?



- Edit information according to previlage.
- Set up appointments.
- Billing information.



- Thank You!