# Road Safety Management Iteration 2

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#### **Project objective**

The main objective of road safety management project is to create a mobile application which gives alert to the user whether it is safe or not to travel in a particular road. Depending on the intensity of accidents safety alert is given to the user. User can also register using web application of road safety management. To achieve this login and registration page is created and login details of user are stored in a database. Accident data is collected and stored in a database based on which alert is given to the user. Application also has some additional features like providing information if road is closed, is the user is alone or scared he will be given information regarding nearest busy areas and the other users present in that region with the permission of other users and also information about traffic.

#### #Increment 2

In second increment of road safety management project accident records are retrieved from <a href="https://www.kcscout.net">www.kcscout.net</a> website. These collected accident records are stored in a database. A road safety management web page is created where user can also login and register using this website.

#### **Kscout**

Kansas City scout is a new technology tool box that address transportation needs in different ways. The required accident records necessary to decide the safety level of the road are retrieved from this Kansas City scout website. Using high resolution video cameras and roadway sensors scout will monitor the traffic conditions and record if any accidents occur.

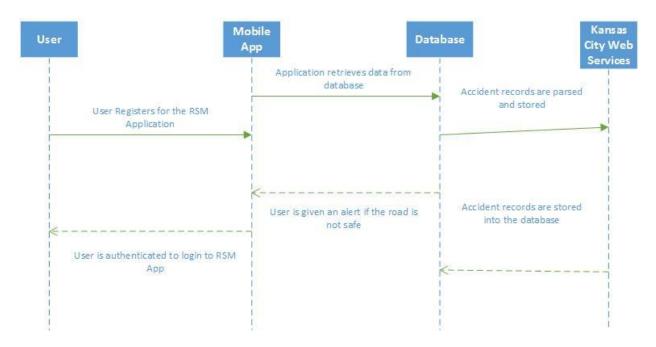
#### **Service Description**

Login service is created in the previous iteration which helps the user to register and login with the application. User first registers using registration service and then login into the application. We designed login module with username and password. After entering the user details, a click on submit button, will submit these values and the user will be logged in. These user details will be stored in the database with username and password key values. Next time, when the same user has to login, he has to enter correct combination of username and password. Validations are written cover all the possible scenarios for username and password combination. Database is created and user data is stored into the database. Accident records are stored in another database. Which are retrieved into the application to generate the safety level.

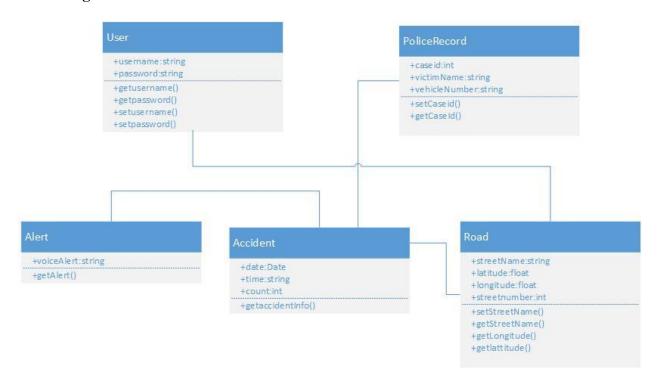
#### **Design of Web Client Interface**

- user interface has login and signup
- user can also login through their Google+ id
- username and password are stored in database

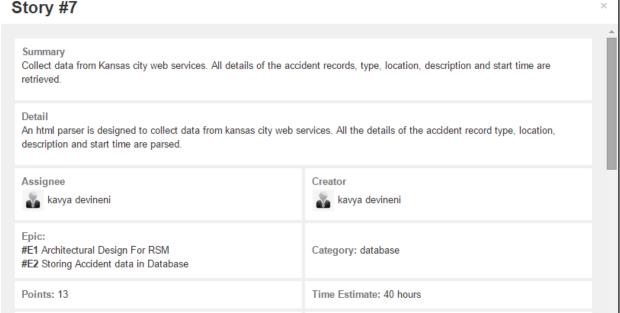
## **Sequence Diagram**



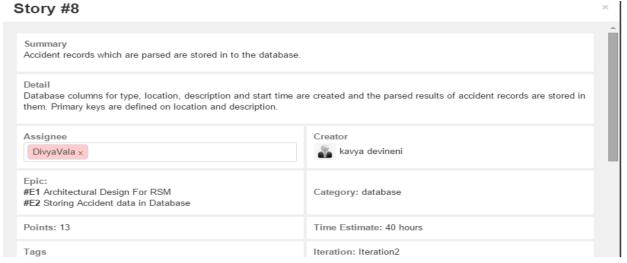
## **Class Diagram**



# **Detail Design of Services**



In story7 data is collected from Kansas City web service called kscout and these details of accident records are retrieved.



Retrieved accident records are stored in a database. The parsed results from Kansas city web service are used to decide the accident intensity which in turn helps to decide the safety of the particular road.

# Story #9 Summary Web client interface design for registration and login module for Road Safety Management. web client design for registration and login is designed. User details are stored in the database, validations are done based on these user details. Assignee Creator kavya devineni spandan8055 Category: data #E1 Architectural Design For RSM Points: 13 Time Estimate: 40 hours Iteration: Iteration2 Tags #database

Web client interface is designed with login and registration pages. Using this web application user can even register for road safety management application.

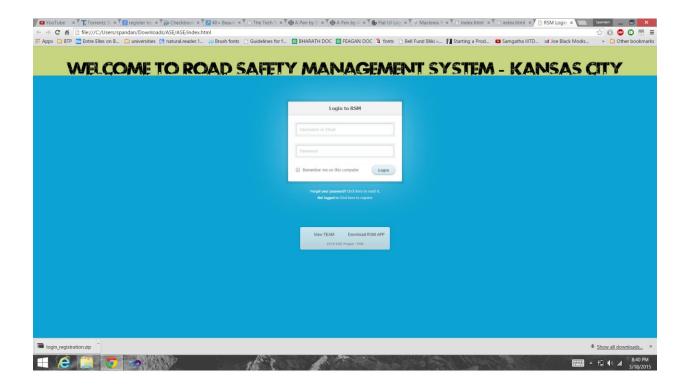
## **Deployment**

http://www.scrumdo.com/projects/project/asersm/iteration/121746

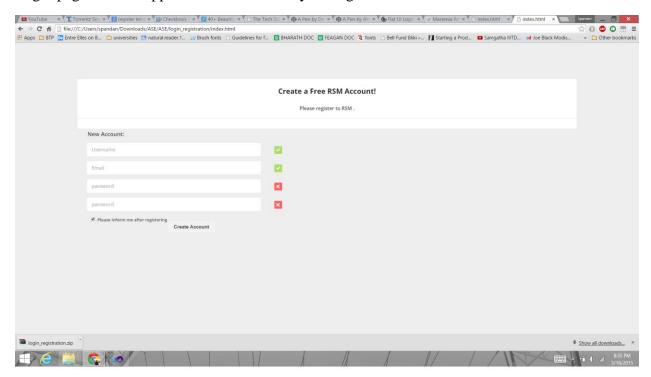
## Screenshots and explanation on the design and implementation



In iteration1 login page is created for mobile application.



Login page for web application of road safety management is created.

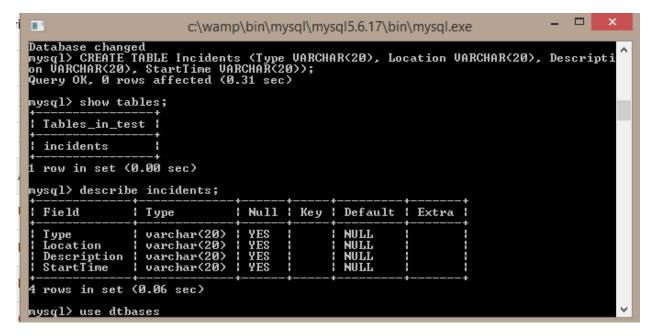


The above image describes the registration page for road safety management.





After registration the above statement will be described.

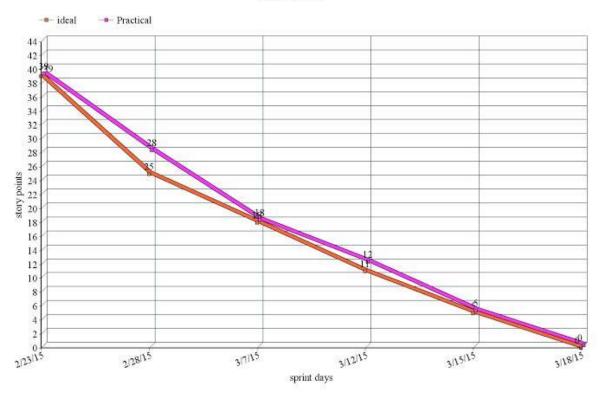


# **Design of unit test cases**

Test Case ID	Description	<b>Execution Status</b>	Expected Result
1	Entry of correct username and password	PASS	User must be able to login successfully.
2	Entry of wrong username and correct password	PASS	User must not login successfully.
3	Entry of correct username and wrong password	PASS	User must not login successfully
4	Entry of wrong username and password	PASS	User must not login successfully
5	Entry of user values in to the database	PASS	Database must be populated with the user details
6	Data from web service has to be retrieved from html parser.	PASS	User must not be able to login.
7	The parsed data has to be stored in the database	PASS	All the accident records are stored in the database

# **Sprint Burndown Chart**





#### References

http://www.kcscout.net

http://accidentdatacentre.com/

http://www.modot.org/

http://accidentdatacentre.com/us/missouri/kansas-city-mo/kansas-city