

The Great Mind Challenge - Project Scenario Template

Note: Already filled information should not be changed

1.	Name of the Project	Law & Order Automation
2.	Objective/ Vision	"Serving those who protect" To deliver next generation police and law enforcement reporting tools, and setting up intelligence platforms that agencies use to take incoming incident reports, lessen employee resources and allow these enforcement agencies to reallocate resources to much needed community areas
3.	Users of the System	A. Citizen B. Police officers (Constable to DGP) C. Detectives D. Administrator
4.	Functional Requirements (Atleast Eight)	<ul style="list-style-type: none"> i. Administrator should be able to create/edit a virtual police station (PS) which represents a real police station as a first time setup. ii. Appointing of police officers to a particular police station which is present in a specific zone or to a specific district as a first time setup, he should be transferable at later time. iii. PS should have areas of control which can be modified at later time. iv. Police station has several departments like Law and Order, Women Protection, Cybercrime, Traffic and control, CBI, etc. Separate module for each dept would be needed. v. When a complaint is made it undergoes various processes like FIR, Charge Sheet, Property Seizure, court disposal etc all these activities are performed by a PS. vi. Traffic and Control has important part where the Traffic inspector would be filing a charge sheet from a mobile or PDA. vii. Maintaining the criminal information state wise/area wise/age wise is mandatory viii. Sharing of case details with PS in other states is needed. Note : Other state may use different database and different platform (use of IBM MQ is necessary) ix. Communication between officers is mandatory through forum, chat, polls. x. The magistrate should be able to access the case details and provide/deny the arrest warrant. xi. Citizens should be able to apply for various licenses like Arms, loud speaker, Hotel/lodge, browsing centre, mass meetings etc., and the officer should be able to approve/reject which will be notified to the applicant via SMS and Mail xii. Secured registration of citizens is needed where they need to provide proof of citizenship, which will be cross checked by the police officer of that area.
5.	Non-functional requirements (Atleast Four)	<ul style="list-style-type: none"> i. Secure access of confidential data (user's details). SSL can be used. ii. 24 X 7 availability iii. Better component design to get better performance at peak time iv. Flexible service based architecture will be highly desirable for future extension

6.	Optional features	<p>a. Integration of E cops with Prison management and Court is an immediate requirement</p> <p>b. Chat using XMPP provides added feature</p> <p>c. Biometric authentication (Face detection or Fingerprint).</p> <p>d. Administrator should have a java client end (i.e. java swing end) rather than web end.</p> <p>e. Use of JMS for communication between other state databases.</p> <p>f. Predicting criminal faces in various conditions using digital image processing via face points would be additional feature</p>
7.	User interface priorities	<p>A. Professional look and feel</p> <p>B. Use of AJAX atleast with all registration forms</p> <p>C. Browser testing and support for IE, NN, Mozilla, and Firefox.</p> <p>D. Use of Graphical tool like JASPER to show strategic data to admin</p> <p>E. Reports exportable in .XLS, .PDF or any other desirable format</p>
8.	Reports	<p>A. Complaints filed in a day and action taken to it. It should also report unattended complaints.</p> <p>B. Crime rate due to various types of crimes in a month/year and also in district/state wise.</p> <p>C. Report regarding most wanted criminals and bounty information if available.</p> <p>D. Police officers often export the FIR copy to PDF format.</p>
9.	Other important issues	<p>A. The Police station should go online, i.e., even the Station Diary; Station House Officer Diary should go online.</p> <p>B. Everything should be customizable by Administrator i.e. even the home page contents.</p> <p>C. It should be start of an E-governance system, so the registered member details may be used for various purposes</p>
10.	Team Size	2 - 4
11.	Technologies to be used	UML, J2EE, XML, e-Forms, AJAX, Web 2.0, Web-services, SOA
12.	Tools to be Used	<ul style="list-style-type: none"> • ROSE/RSA / WebSphere Modeler • Eclipse/ RAD / Lotus Forms Designer / Portlet Factory • WebSphere Portal/ WAS/ WAS CE / WPS • DB2 Express – 'C' or DB2 UDB • Tivoli CDP/TSM / Tivoli Directory Server • Linux will be the preferred OS.
13.	Final Deliverable must include	<p>A. Online or offline help to above said users, Application deployment executive and developer</p> <p>B. Application archive (.war/.ear) with source code</p> <p>C. Database backup and DDL Script</p> <p>D. Complete Source code</p>