

The Great Mind Challenge - Project Scenario Template

Note: Already filled information should not be changed

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| 1. | Name of the Project | Public Work Department Tender Management System (PWDTMS) |
| 2. | Objective/ Vision | State Government will use this system for opening a tender for submission. Builders can check the tender details, submit a tender, view results, evaluation process. PWD can open a tender, evaluate a tender, compare tenders submitted and generate reports. Completion of work can also be traced from the system |
| 3. | Users of the System | A. System Admin B. Government PWD users C. Contractors/ Builders/ Construction agencies D. Government senior Officers |
| 4. | Functional Requirements (Atleast Eight) | <ul style="list-style-type: none"> i. Enlistment of new contractors. It should contain all the contractor details , including attachments of the documents required. ii. New registration approvals by Government PWD, validated by email and SMS. iii. Creating a tender for public constructions with options of selecting Construction Type, budget, place, timeline etc. iv. All the project details must be visible to the users, this details must have a link to tender corresponding. v. Builder/ Contractors should be able to submit a tender which should include his past projects, Overall bid cost, Material used, Timeline, etc. vi. PWD users should be able to compare the tenders depending on various criteria's such as L1, prior project experience, etc. vii. 2 layers of approval of contract much be followed. Contract will be approved first by PWD users and then by Government senior officers. viii. After a Tender is approved for a contractor he must be informed via a mail. ix. Contractors should be able to view status of his bid online. x. History of all the tenders submitted by all the contractors mush be maintained and visible to PWD users and admin xi. A page with all the circulars and downloading the pdf's of circulars and tenders. xii. Home page of the application must display the number of Current tenders, Number of works going on, number of tender with last date as today. A link that will open the details. xiii. All the resent tenders to be visible to everyone depending on the priority of submission date. |

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| 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 | <ul style="list-style-type: none"> a. History of all the tenders submitted by a contractor must be available in his login. b. Submit and review current status of work against the time line submitted and approved in the contract. c. Evaluation process of the tender to be visible to all and managed by admin. d. Contacts of the department heads and important people. e. Quick link for RTI Act of the state |
| 7. | User interface priorities | <ul style="list-style-type: none"> A. Professional look and feel B. Use of AJAX atleast with all registration forms C. Browser testing and support for IE, NN, Mozilla, and Firefox. D. Use of Graphical tool like JASPER to show strategic data to admin E. Reports exportable in .XLS, .PDF or any other desirable format |
| 8. | Reports | <ul style="list-style-type: none"> A. Details Tenders issued by PWD in a financial period along with status of each tender. B. District wise bifurcation of all the work done in a financial year. C. Contractor wise tender submission against approval to be displayed till date. D. An overview status chart for Government senior Officers with number of upcoming tenders, currently running tenders, number of contractors in the approved tenders. Drill down to the detail table after clicking on the chart. E. Approver wise bifurcation for all the tenders that were approved. F. List of all the contractors with details District wise. |
| 9. | Other important issues | <ul style="list-style-type: none"> A. B. |
| 10. | Team Size | 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

- A. Online or offline help to above said users, Application deployment executive and developer**
- B. Application archive (.war/.ear) with source code**
- C. Database backup and DDL Script**
- D. Complete Source code**