

Call for Application

**(To receive applications for providing IT services to continue and maintain INSPIRE web-portal
www.online-inspire.gov.in)**

The Department of Science and Technology (DST) proposes to continue and maintain the web-portal (www.online-inspire.gov.in) and associated software applications along with public response system that enable effective implementation of INSPIRE INTERNSHIP, SCHOLARSHIP FOR HIGHER EDUCATION, INSPIRE FELLOWSHIP AND INSPIRE FACULTY FELLOWSHIP components of the INSPIRE Program. The Head, INSPIRE Program, DST, invites applications by 30.11.2019 from academic/research institutions for the continuation and maintenance of the above mentioned web-portal and associated software applications. A brief of the INSPIRE web-portal www.online-inspire.gov.in is attached (Annexure-I). Only those academic/research institutions need to apply who have three years of experience in the field of software application design, development, supply, installation, implementation, support and maintenance and have already developed and implemented similar systems for other departments/offices under GoI/State Governments.

Proposal Format

- 1. Name of the Academic/Research Institute:**
- 2. Address of the Academic/Research Institute (including e-mail, telephone & fax numbers):**
- 3. Name of the Project Leader:**
- 4. Official Address of the Project Leader (including e-mail, telephone & fax numbers):**
- 5. Describe the experience of the Institute in the field of software application design, development, supply, installation, implementation, support and maintenance and list similar systems already developed and implemented for other departments/offices of GoI/State Governments in the last 5 years.**
- 6. CVs of Project Leader and other scientists/engineers in about 3-4 pages detailing relevant experience for the work.**
- 7. Proposed budget for undertaking this work, separately for each financial year starting from 16.01.2020.**
 - (i) Capital Cost (Hardware Cost)**
 - (ii) General cost (Manpower, Travel, Consumables, Contingency, Internet Charges, etc)**

Enclosures:

- 1. Endorsement Letter from the Head of the Institute**
- 2. Certificate from the Project Leader (s).**

Proposals may be sent by speed post to the Head, INSPIRE Programme Division, Department of Science and Technology, Technology Bhawan, New Mehrauli Road, New Delhi-110 016 along with the softcopy as an single PDF file attachment on the e-mail id: pasthana@nic.in

INTRODUCTION

"**Innovation in Science Pursuit for Inspired Research (INSPIRE)**" is an innovative programme sponsored and managed by the Department of Science & Technology for attraction of talent to Science. The basic objective of INSPIRE is to communicate to the youth of the country the excitements of creative pursuit of science, attract talent to the study of science at an early age and thus build the required critical human resource pool for strengthening and expanding the Science & Technology system and R & D base.

INSPIRE APPLICATION ONLINE URL: <http://www.online-inspire.gov.in/>

INSPIRE SCHEMES**Inspire Internship**

The objective Scholarship for Higher Education of organizing the INSPIRE Internship camp is to reveal the joys of innovation to the talented youth of the nation to pursue study in science and career in Research and Development.

Note: For more functional understanding, please refer the linked document.

<http://www.online-inspire.gov.in/UserManualINSPIRE/Internship.zip>

Scholarship for Higher Education

Scholarship for Higher Education (SHE) is a component scheme under Innovation in Science Pursuit for Inspired Research (INSPIRE), which is a flagship programme of the Department of Science and Technology (DST), under the Ministry of Science and Technology, Government of India. It aims to engage young talents for the study of Science and Technology and pursue research as a career and to augment youth to undertake higher education in Science intensive courses by providing scholarships to deserving students.

Note: For more functional understanding, please refer the linked document.

<http://www.online-inspire.gov.in/UserManualINSPIRE/She.zip>

Inspire Fellowship Scheme

It is the 4th Component of INSPIRE Program under Opportunities in Research Career Scheme launched by the Government of India to strengthen the national science and technology base. It is being implemented by the Department of Science and Technology (DST). This Component is focused on attraction of student to pursue doctoral degree in basic and applied sciences including engineering, medicine, agriculture, veterinary, pharmacy etc. after either masters' degree in science or bachelor/ masters' degree in engineering/ applied sciences.

Note: For more functional understanding, please refer the linked document.

<http://www.online-inspire.gov.in/UserManualINSPIRE/Fellowship.zip>

Inspire Faculty Scheme

INSPIRE Faculty Scheme is a component under Innovation in Science Pursuit for Inspired Research (INSPIRE), which is a flagship programme of the Department of Science and Technology (DST), under the Ministry of Science and Technology, Government of India. It offers a contractual research awards to young achievers and opportunity for independent research in the near term and emerge as a leader in future science & technology.

Note: For more functional understanding, please refer the linked document.

<http://www.online-inspire.gov.in/UserManualINSPIRE/Faculty.zip>

Inspire Legacy Users

Applicants who have submitted before December 2014 treated as a legacy users.

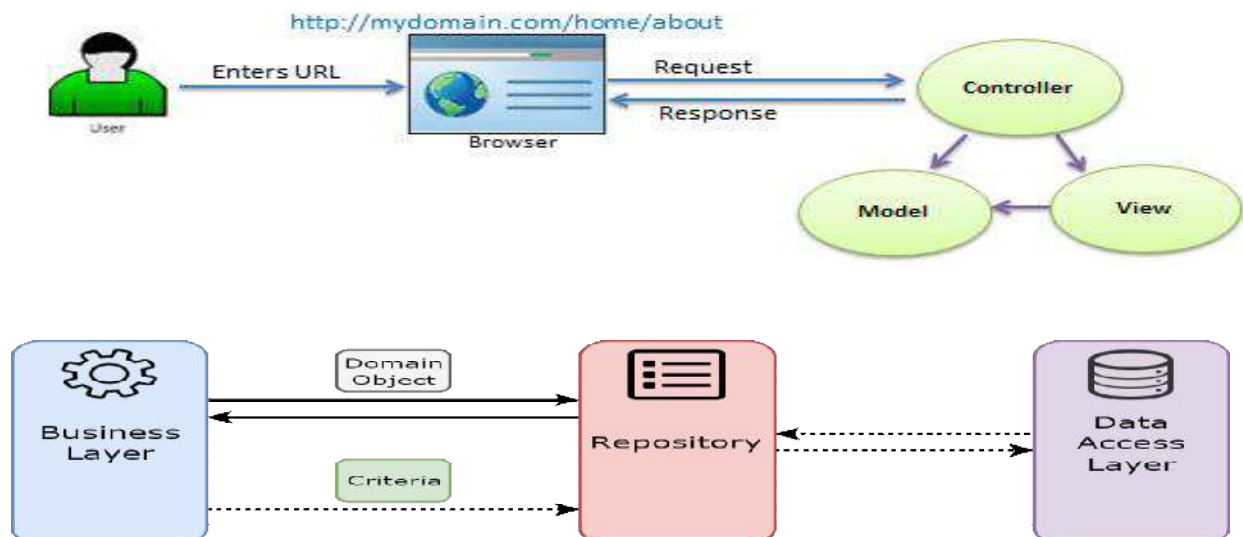
PROJECT SCOPE

Milestone	Scheme	Documentation
M1	System Study / Requirement Elicitation	High Level understanding Documents
M2	INTERNSHIP PROGRAM	Design Document Test Cases UAT User Training Go-Live
M3	SCHOLARSHIP PROGRAM	
M4	FELLOWSHIP PROGRAM	
M5	FACULTY PROGRAM	
M6	User Manuals, Security Audit	
M7	IVRS Setup, Call Center	
M8	Warranty	Started from 16 th Jan 2014 – End on 15 th Jan 2015
M9	M&S	Support Service Period – 5 Years Started from 16 th Jan 2015 – Ends 15 th Jan 2020

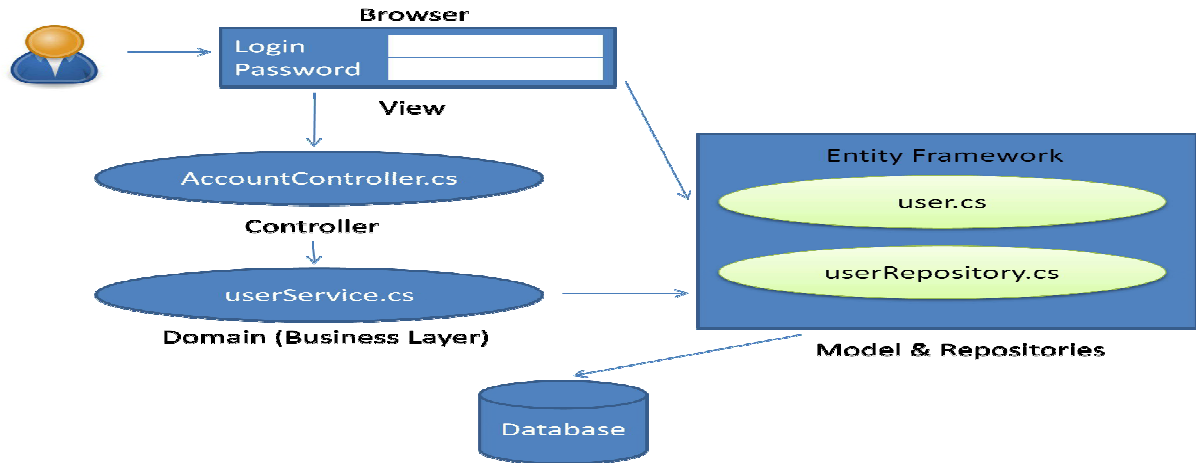
TECHNOLOGIES

- C# 4.0
- Microsoft Visual Studio 2012
- ASP.NET 4.0
- MVC (Model, View, Controller) 4.0
- Entity Framework (EF), Repository Based CRUD Operation, Automapper, Autofac, Quartz Scheduler
- J-Query
- BOLT (UI Rapid Development, Client Side and Server Side Validation)
- MS SQL Server 2008 Enterprise
- OWASP TOP 10 Security Model In Placed (Third Party Audit done by NIC)

APPLICATION ARCHITECTURE



INSPIRE CODE FLOW



APPLICATION SERVER CONFIGURATION

Two application servers are setup undergo by NIC with the below configurations.

Component	Technology	Version
Operating System	Window Server 2012	2012
Processors	3 Processors	
RAM	32 GB	
Hard Disk Space	300 GB	
Internet Information Server	IIS8.0	

DATABASE SERVER CONFIGURATION

Two database servers are setup undergo by NIC with the below configurations. Database backup is taken by NIC and current retention period is 7 days.

Component	Technology	Version
Operating System	Window Server 2008 R2	2008 R2
Processors	8 Processors	
RAM	32 GB	
Hard Disk Space	250 GB	
SQL Server	SQL Server 2008 R2	2008 R2

SUPPORT CALL CENTER CONFIGURATION

Component	Technology
IVR System Setup	Separate Telephone Leased Line (Airtel)
Inspire Ticketing System Setup	In-house setup

RESOURCE ALLOCATION

Total 5 resources are deployed in Support and Maintenance Phase.

- 4 Resources for Call Center Support (Support Calls, Ticket Management)
- 1 Resource for Application Maintenance Activities (Minor Development Tasks, Application Issue Handling)

Endorsement from the Head of Institution

(To be given on institution's letter head)

Project Title:

1. Certified that the institute welcomes participation of _____ as the Project Leader and _____ as the Principal Co-Project Leader for the project and that in the unforeseen event of discontinuance by the Project Leader, the Principal Co-Project Leader will assume the responsibility of the fruitful completion of the project (with due information to DST).
2. Certified that the equipment and other basic facilities and such other administrative facilities as per terms and conditions of the grant, will be extended to the investigator(s) throughout the duration of the project.
3. The institute assumes to undertake the financial and other management responsibilities of the project.

Date:

Place:

Name and Signature of Head of Institution

Certificate from the Project Leader(s)

Project Title:

1. I/We agree to abide by the terms and conditions of the DST.
2. I/We did not submit the project proposal elsewhere for financial support.
3. I/We have explored and ensured that equipment and basic facilities will actually be available as and when required for the purpose of the projects.
4. I/We undertake that spare time on permanent equipment will be made available to other users.

Date:

Place:

Name and Signature of Project Leader(s)