**PROJECT PROPOSAL**

1. **Project Idea**

Developing a database for a social platform that facilitates the exchange of services among an online community for a predefined amount.

Our platform allows a customer to post a requirement, advertise their own particular skill/service and browse/search through the community’s offerings of services.

The idea for this project was inspired by the online platform [www.fiverr.com](http://www.fiverr.com).

1. **Project description**

The following four core functionalities will be developed:

1. **Post a request**

This would allow a user to post a service that they require and are willing to pay for. The post would include the following:

* 1. Brief description of the work
  2. Expected timeframe for completion
  3. Category that the service falls under

1. **Post a service**

This would allow a user to post a service that they are willing to provide.

The post would include the following:

* 1. Brief description of the work
  2. Category that the service falls under

1. **Search on request/service**

The user would be able to perform two types of discovery:

* 1. Text based keyword search on description of service/request
  2. Category based browsing

1. **Customize user dashboard**

This would include the following features:

* 1. Edit the basic information
  2. Provide recommendation of services based on user preferences

1. **Technologies:**

Front end-AngularJS-JavaScript Framework, Bootstrap, HTML, CSS.

Server Side-NodeJS-platform, ExpressJS-web framework

Database: Microsoft SQL server management studio 2012

Version Control-GitHub

1. **Plan of execution:**
2. Brainstorm and create ER diagram
3. Creation of database involving table creation, relationships among tables, enforcing constraints
4. Load database application with demo data
5. Create views, triggers, stored procedures, functions and cursors.
6. Query optimization through de-normalization and indexing.
7. Testing the database application through unit testing and integration testing.
8. **Project task delegation:**
9. DDL-Sarin
10. DML- Nupur
11. DCL- Ramya
12. Testing, Query optimization and fine tuning- Sarin, Nupur and Ramya