

Innovation Information

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Title of the innovation :

Bankwalah

Name of the student :

Ashish Chandra

Name of nominator if third party (faculty/professional/NGO/others ) :

Prof. Kavi Arya

Institute name :

Iit Bombay

University :

Indian Institutes of Technology Bombay

Have you applied to GYTI before?:

Guide / Supervisor Information

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Research Guide / Supervisor Name: :

PROF. KAVI ARYA

Research Guide/ Supervisor Cell No :

+91-22-5767909

Research Guide E-mail :

[kavi@cse.iitb.ac.in](mailto:kavi@cse.iitb.ac.in)

Name of any other team members :

ASHISH CHANDRA,DEEPESH MEENA,ANSHU AHIRWAR

Other Innovation Information

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Project was completed under which Academic Program? :

Undergraduate

In which year this project was finished or is tentatively going to be finished? :

2017

Category Name :

Computer science, Information technology & related fields

Sub Discipline/Sector of project :

SOFTWARE SYSTEMS LAB

Synopsis / Abstract/ summary of innovation :

BANKWALAH is a web application that can be used by banks to manage their daily activities like managing employees, creating new accounts, crediting and debiting money to user accounts, calculating interests and crediting them to user accounts, debiting user accounts for charges like ATM uses etc. We see that all of the banks worldwide use their specialized software and there is no common platform. The main objective of BANKWALAH is to provide the banks an open-source software to manage their activities. By using BANKWALAH, banks can save lots of money that they pay to develop a customized software.

Whether any reservation in showing it on website? :

No restriction, publish it.

Project Tags/keywords :

BANKWALAH, BANKING SOFTWARE, EMPLOYEE MANAGEMENT, CUSTOMER MANAGEMENT

Unique feature of your innovation :

The interface is made super-easy to be used by employees of any bank. The software does all the work and even a layman employee with little knowledge of computers can handle the software.

What is the exact problem that your project has addressed? :

There will be three dashboards called SHAKTIMAAN (Administrator), GEETA (Manager) and GANGADHAR (Clerk). Data can be inserted/altered/deleted/manipulated into the database through any of the above dashboards by an employee with proper authority. The software uses advanced, interlinked and complex SQL queries to view and manipulate data from several tables interlinked through foreign keys.

Which exact problem (Technical / Social / Commercial / Professional) does your innovation address? :

Commercial

Status of your innovation :

Already into the Market/Implementation

Have you filed patent/copyright of your innovations :

No

Mention at least 2 or 3 recent patent and/or publication/s from which your technology is distinctly different:

https://www.google.com/patents/US20070219943 https://www.google.com/patents/US20140172898 <https://www.google.com/patents/WO2012018424A3>

Innovation Details Information

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Have you published any Research paper in refereed Journal?Yes or No If yes please attach a copy or give reference:

No

Proposed outcome/impact of your innovation ? :

BANKWALAH will allow banks to perform their daily activities without paying hefty money to software developers. This will reduce the cost of their services and therefore consumers will be the ultimate beneficiary. BANKWALAH is an open-source software, so banks will be allowed to modify this software according to their specialized needs. In this process, new and better versions of this software will evolve with time.

Who have made contribution towards this project and specific detail i.e. student team, faculty, mentor, anyone else. :

ASHISH CHANDRA (STUDENT TEAM), DEEPESH MEENA (STUDENT TEAM), ANSHU AHIRWAR (STUDENT TEAM), PROF. KAVI ARYA (FACULTY), DIPTESH KANOJIA (MENTOR)

For research work to develop into a commercially viable product/service, what would be the resources required? :

BANKWALAH was developed as an end-semester project for SOFTWARE SYSTEMS LAB at IIT Bombay. We had very little time like 30 days or less to develop it along with other academic commitments. The software works perfectly as we had proposed in our preliminary idea to Prof Kavi Arya. However, if we had more time then, we must had developed some extra modules for the software like loan processing, net banking, employee attendance etc. If this project were to be made a commercially viable product then it will need to be tested in high-web-traffic scenarios and hack proof environment which will involve some hardware cost and time.

Highlight any frugal aspect of innovation :

BANKWALAH didn't cost us anything as yet except our precious time. We used open-source modules as in our curriculum to develop it. It costed us several sleepless nights of teamwork (TEAM RANSMWARE) at SOFTWARE LAB 3 of IIT Bombay.

How do you feel that your innovation/project can 'Create more value/from less material resources for More People? :

If BANKWALAH is financed and developed properly, it has a huge potential for banks and so for common people. It is a known fact that banks pay crores of rupees (public money) to develop standard software for their general functioning. This public money can be saved by using an open-source platform like BANKWALAH. Sooner or later, this can be developed into a more robust and versatile banking software.

Any other information about your research you would like to share? :

We ended up grabbing full marks for the project in our end semester. We as a team, Prof Kavi Arya and mentor Diptesh Kanojia were happy to see what we had done in very little time. We are also very fond of our newly acquired capabilities as software developers.

**Uploaded Photos**

* [jpg](http://gyti.techpedia.in/upload/innovation_attach/2018/12196/455.jpg)
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