

THE SIMPLE LIFE v1.1

The following are the projects that have been shortlisted. Make sure you apply to the team which has less than FOUR members on it. Check the list in the link above which shows you how many each team has at the current time.

SL06104 - Information Service for Baramati Village

hiren_kotadia@yahoo.com

deltasquare4@gmail.com

We have tried to develop an open source project for Baramati Village. This project is developed using Visual Basic 6.0 therefore we can get maximum benefit for easy to use Graphical Interface. Using VB, we have tried to provide maximum flexibility to this project. We have included a special tool with the help of which we can implement this software for any language. In short, we can create a language pack with the help of this tool. We have already included both English and Hindi language packs.

Features include:

Online Foreign market price listing

Agricultural Encyclopedia along with information about diseases and its prevention, different methods of farming for different crops.

Info about land quality and variety of crops that can be planted.

Online banking facility

Records of land ownerships (If electronically available)

Commodity exchange

Healthcare Encyclopedia for villagers & animals.

Online railway reservation from Pune.

Weather information for surrounding areas of Baramati village.

SL06123 - Mobile Phone Solutions For Kiosks

hrush_mehendale@yahoo.co.in

rparundekar@hotmail.com

chaitrali44@rediffmail.com

Cellular / Mobile Phone Technology proves to be very useful in overcoming the problems discussed before. The number of Mobile users in rural areas is increasing at a rapid rate. Being Wireless Technology, it is Geographically Penetrating into the Heart of Rural India. Moreover the increasing popularity of the Mobile Phones gives the Kiosk a large client base.

Features include:

- 1) MARKET RATES
- 2) FORUMS
- 3) ADVERTISEMENTS

SL06133 – Integrated Information and Services Provider (IISP)

aroopl_ganguly@yahoo.co.in

samuel_das_3607@yahoo.co.in

sweetysangeet@yahoo.co.in

getc10@yahoo.co.in

While designing the system we have kept in mind the various problems that rural people are confronted with. *IISP provides each villager with a unique identification. The corresponding database stores all the relevant data associated to the villager. All personalized updates or notices are addressed to his id and he is apprised of them.* We have identified these sectors of problem solving:-

1. Farming
2. Transportation.
3. Medical
4. Education
5. Purchase

Framework and the Technologies Used:-

(I) User Interface:-

1. Touchscreen.
2. All data in Native Language, using the Matrubhasha module.
3. Every option is accompanied with an Audio Response.
4. GUI.

(II) Front-End :-

- any internet based technology, Java or .Net based web page modules.

(II) Back End:-

- Oracle 9i or DB2.

SL06144 – Weather Monitoring, Broadcasting and Forecasting

rigarace@hotmail.com

mandar_mit@yahoo.com

freezit@yahoo.com

The hardware would consist of setting up of surface observatories under guidance of India Meteorological Department (I.M.D.). These surface observatories would consist of low-budget and precise weather monitoring equipments like digital barometers, thermometers, hygrometer, wind vanes etc.

The software will automate the complete process of storing the recorded data and updating the online database periodically. This information will be available to I.M.D., and can also be helpful to applications like 'aAQUA'.

With this information I.M.D. will be instrumental in weather forecasting of rural areas. These forecasts will be available at the kiosk through our software.

The complete system will be automated from measuring of the data to providing the data online.

SL06149 - Video Conferencing Toolkit for Remote Healthcare in Rural India

mailrakeshjs@gmail.com

dhirenpatra2000@yahoo.com

riteshphalak@yahoo.com

shulintodkar@yahoo.com

Currently Aravind Eye Hospital is using a mix of N-Logue and Wi-Fi wireless links for connecting a subset of its vision centers. The *TIER* group (at University of California, Berkeley) is working towards deploying high-bandwidth wireless links to connect all the Aravind vision centers. These wireless links will provide for a low cost alternative for connectivity in the rural areas. However there is still a need for a comprehensive video-conferencing tool for this network. The special characteristics of a distributed, multi-hop, point-to-point wireless network present a number of challenges for efficiently implementing video-conferencing.

The main aim of the project will be to build a remote diagnosis tool that will work in multi-hop, point-to-point wireless networks and efficiently utilize bandwidth by using multicast video and audio. A key challenge is to leverage existing tools that do not satisfy all the requirements on their own. The open source nature of the project will help others to adapt and make changes as the requirements change over time.

Features to be included

- A single application for unicast and multicast
- Good audio and video with minimum latency
- User friendly GUI
- Inbuilt text chatting and file transfer
- Flexibility
- Portability

SL06152 – e-Kranti

alok162@yahoo.com

vinay_kuruvilla@yahoo.com

mailpriyesh03@yahoo.co.uk

surana4u@gmail.com

E-KRANTI is an all-round application software which acts as a one-stop solution for the multiple problems of the people of Baramati. We have identified education, career counseling, health and agriculture as the primary areas requiring our immediate concern. A conscious effort has been made to enable the people of Baramati to have easy access to information. We want the villagers to use the weapon of knowledge, provided by E-KRANTI, in tackling every problem. This software also encourages co-operation among the villagers (Discussion Boards, Vyapaar)

SL06153 - (Sampoorna Gram-Vikas Pariyojana)

rveng_dom@yahoo.com

lavegupta@yahoo.com

patkar_vaibhav@yahoo.com

vinodgnaik@rediff.com

Objectives of Proposed Software:

- To achieve economic development of rural India through computers
- To introduce new schemes and market for rural industries
- To maintain a stable system
- To increase literacy level
- To design a system suitable to train people in rural areas
- To implement population control program
- To provide employment opportunities for illiterate & old people

SL06156 – Apni Boli

dhaval.giani@gmail.com

akshaya147@yahoo.co.in

gautham.shenoy@gmail.com

The web plays a key role in making India shine in the global village. But its reach is limited to urban India. This is because language used on the net is mostly English and the rural mass is still largely uneducated. They depend on the local language for communication. The full potential of the web is utilized only when the entire population including the rural mass reaps its benefits. Software that translates English web pages to local language speech would go a long way in achieving this. It makes the tremendous information on the web accessible to the rural population. "Apni Boli" is a step in this direction. The software takes input in the form of English text from the web and translates it into a format that can be used by a text to speech engine. The final output will be spoken out in the target language. The next concern is the approach to be adopted to achieve this goal. The intent is to convey the meaning to the end user in the target language. In language translation, there is no direct word-to-word translation; only essence of the message is communicated.

SL06157 – Information Kiosk for Form-filling and Procedures

animesh.verma@gmail.com

meastud84@yahoo.com

chandan_mitr@yahoo.co.in

We address the issue of lack of information in rural India relating to official procedures, filling forms, other paperwork, etc. resulting in inconveniences, such as unnecessary spending on middlemen, traveling and wasted time, to the individual, hampering the social and economic progress of the society.

- Our kiosk software will provide detailed information regarding forms, applications and procedures of various government, non-government and private organizations.
- The software will tutor the layman how to fill any form and procedures which are needed to meet all the formalities pertaining to any development activity like taking credit, electricity/telephone connection, etc.
- The user will also be presented with sample filled forms and wherever possible can get a print-out of the forms or fill them online.
- To reach the less-literate population the software will be multi-lingual and rich in audio content to effectively deliver the information to the user.

SL06158 – SANKALP.NET

nitish.suri@gmail.com

payal_bhat855@yahoo.co.in

We are developing open-source software based on the ICT approach. The basic idea behind the software is to combine the already existing facilities and add some more applications that can help rural India to overcome some of the problems. Our idea revolves around the strategy of "**getting the whole sea in one pot**". Various aspects have been worked out to achieve the target. We followed a practical approach and went into a village to have an idea of the various problems faced by the rural India that includes fields like education, agriculture, communication, health, social, financial etc. To bridge the digital divide, many steps have already been taken by some agencies like setting up kiosks that provide internet access through which many other purposes can be solved. We went inside a village where such facility is already in place. We interacted with the people there and discussed some of the basic issues concerning them. We have listed the issues in later sections. The factors that can help these villages to develop with the help of village kiosks and various other technologies are:

1. AGRICULTURE
2. EDUCATION
3. FINANCE
4. POWER & WATER
5. COMMUNICATION
6. HEALTH
7. TRAVEL
8. WEATHER CONDITIONS
9. QUERIES

SL06162 – Cattle and Crop Care Simplified (CCCS)

uandme_friend2004@yahoo.com

d_arun_j@yahoo.com

goelpulkit@gmail.com

rjt_junks@yahoo.com

We are working in the village of Pabal. Our main aim is to provide medical related information for the cattle of the villagers. The medical information will include primary treatment of the cattle, and information for tending them throughout the year with proper seasonal care. We would also provide information for agricultural growth. The information for agricultural growth would include the proper way of dealing with seasonal crops, the crops in demand presently in the market, the present prices of the crops, the soil information of the place and what kind of crops are suitable for growth in that particular region, the climatic information of the place, information for trading the crops in proper places, etc.

SL06165 – Farming and Dairy Support Services

mrun_manu@hotmail.com

to_monali@yahoo.com

priy_pu@yahoo.co.uk

deepti_nalavade@yahoo.com

The website will be put up on the Internet to provide villagers an access to the outer world and vice-versa. The villagers can access it through kiosks set up in the village. Through various links provided therein, they can access information from help centers, NGOs and other institutes. They can verify market prices of various commodities. They can update themselves with latest technological inventions in their respective fields. Redressal can also be sought for their specific problems. By filling up pre-designed forms, databases of farmers will be created and used as a means of self- advertisement and promotion. This website will act as an interface between common villagers and the outside world and thus will make them go 'global'.

The project mainly aims at the following:

- Timely technical support
- Knowledge about urban market scenario
- Proper channel to promote business
- Transportation

SL06167 – GYANSAGAR (Comprehensive Info Channel)

indianbill007@rediffmail.com

“GYAN SAGAR” will be a comprehensive information acquisition, processing and delivery Software. It will use novel approach at each step and can be deployed in small communities like villages and provide locally customized information. The information may be in the form of raw information, like local weather reports, selling prices of agricultural produce or health alerts. Additionally, the software system will be capable of using locally deployed sensors as well to acquire data .The software will be ‘smart’ and will be able to process data and come up with suggestions based on known relationships.

For example, if it is dry season and the maize crop is in its fourth week, the software will generate a suggestion that it must be watered twice a day.

The software is ideally suited for community deployment and is both autonomous and education agnostic. Further, it does not require the individual information consumer to make any purchases or skill additions. We envision the “GYAN SAGAR” as a way to bring the benefits of IT to the lowest common denominator of the world, and to help them rise from that status.

SL06172 – Multilingual Client (Innovative Information Interchange)

shauryaanand@hotmail.com

smandal_biomed@ieee.org

anuj.biomed@gmail.com

kattapraful@yahoo.com

Our major objectives are:

- To develop a simplified, secure kiosk based network system.
- System optimized for installation in remote locations.
- User friendly graphical language interface.
- Customized interfacing based on individual profiles.
- Optimal network usage (module introduced for system update when interface is idle)
- Making the product commercially viable so as to generate source of employment.
- Flexibility and optimization based on specific requirements of different rural scenarios.

SL06176 – Generic Trading Service (Company Penetration Channel)

abhijit_sen@iitb.ac.in

saurabh.das@gmail.com

A business model is already in action on the above lines: *e-choupal*, a novel concept where farmers are assisted financially by a company and they sell their produce directly to the company. The model has been developed and implemented successfully by ITC Limited. It results in cutting out the middle-men in the business line, and the farmer gets a higher price for his produce. However, the model is in use only where the raw materials produced are of importance to the company (ITC).

What we aim is to develop an open interface for the above cause, allowing many more companies to easily try out this business model and thus causing benefit to a much larger section of farmers. The online interface should be generic in accommodating the various produces of the agricultural sector. Inherent simplicity in the usage of the front-end is also an important factor. We will also build the back-end databases and interfaces that the company will require.

SL06181 – Vaidhya-Rogi Sahayak (Patient Database Handler)

satishtj@gmail.com

viveksck@yahoo.com

telashu@gmail.com

This project mainly is a patient database which relieves him of the responsibility to carry medical records with him all the time.

- Using this system patient may also get expert advice online (telemedicine)
- Doctor gets a message whenever Report of referred patient is updated in the patient database. He can check the reports anywhere, even on the move and just call the nurse to give proper dosage

SL06182 – Moodle Module I (Library Module with Plugin for Indian Education System)

nis1506@yahoo.com

madhavamitabha@yahoo.co.in

akshat_chowdhary@hotmail.com

Moodle is a free and open source course management system for online learning. There are modules to be developed which are as followed:

1. Library Module - Makes it easy to create multi-page resources with a book-like format, using web-services.
2. Plug-in Architecture - Using the Moodle tool, customize online learning for Indian System of Education. This will be demonstrated by creating a plug-in which can be incorporated in the existing moodle architecture.

Library Module: This feature will allow a user i.e. an administrator or a teacher or a student to obtain data about a particular book with regards to a specified course. This module makes use of web services such as www.amazon.com to fetch data about a particular book and populate the data in its database. This data is permanently stored in the database for future references

SL06183 – Moodle Module II (Syllabus Module added with Unicode Support)

mailkushal@indiatimes.com

pratikpm@rediffmail.com

There are modules to be developed which are as followed:

- Develop PHP Code to convert all current language packs and existing Moodle content into Unicode – Demonstrate by localizing Moodle into one or more Indian Languages.
- Syllabus Module - This feature will allow a teacher to upload and provide the students with the syllabus of a particular course. This module will populate the weeks with the topics of the course. Users can also refer to the syllabus for fetching contents about a particular book using the Book Module

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SL06184 – eDutan India

shankerkeshavdas@gmail.com

Edutan India is an educational service provided by synchronization between a Website , a Channel, the Print Media associated with the organization, and affiliations with various educational organizations, it is a fixed router system that targets at outsourcing and channelizing education over the world. However, since the current educational services available in villages are not exactly top class, our programs will have an academic facet as well. In certain situation where the need is present, our programs will be more academic oriented with programs catering to the ones that children have in classrooms. Other attractive programs could be debates and live talk shows with great personalities on issues concerning national and global awareness.

SL06187 – Apna Bazaar

rvrkabhisheksharma@gmail.com

rachna_singh53@rediffmail.com

shilpakasliwal_pce@yahoo.co.in

The project aims to aid the rural public, especially the farming community, serve its financial interests better by allowing them to receive optimal remuneration for their produce, eliminating unfair middlemen who take advantage of their being misinformed and buy their stock at surprisingly low prices.

The project will be divided into modules:

1. The first module allows for registration of client users (i.e. the rural sellers) and allows them to log on to the system and check for any information they need
2. The second module allows addition of distributor information, so distributors and wholesalers (purchasers of goods) can also request goods from sellers.
3. In addition to all these, the tool will allow the users to contact each other, much on the lines of sites like eBay.com

4. And also, provide accurate pricing information, by providing area based, optimized prices for the seller.

SL06191 – Outsourcing Online

ayushiitm@gmail.com

shoban.iitm@gmail.com

Our project is web portal that provides jobs in the rural areas by outsourcing work from the companies in urban areas. The administrators of the portal will get work from companies and upload them in the portal. The user in the village can download the work, complete it and sent it to the administrators through the portal. The administrators can review the work. If the work is not satisfactory they can send it back to the user (through the portal). Otherwise they can send the completed work to the client (company).

There can be many types of work like typing (in various languages), language translation, web design, and other small software jobs.

SL06193 – Industry-Villager Mutual Benefiting Service

vajpayeemohit@rediffmail.com

Today, some villages are connected to the industries & cities but still there lies a good percentage of rural areas who are either totally remote or connected to limited resources. With limited resources, villagers can only interact with local & traditional customers and consultants which are inefficient to solve their problems.

Such situation demands a role from Information Technology to play so as to provide a bridge between rural & corporate world to solve rural problems in an efficient way. This software will act as a common platform for companies and rural people where they can exchange there requirements. It will allow village people to interact with the relevant companies & consultants regarding their occupation.

It will try to match both the qualitative & quantitative inputs from both sides, giving appropriate choices to them. A search engine will work to match the inputs from farmers, village inputs & services offered by companies to get the optimum output results. Also, it will get connected to various news servers collecting information of market prices of various crops. The relevant prices will be loaded to the farmers accounts as per his inputs. A special advice regarding plantation of Jatropha crops will also be there. Jatropha with its growing importance at present time is the chief raw material for petroleum industries. The advice will be based on soil, climate type available in that region.

SL06195 – Multiple Services Centre

abhishek_modi@iitb.ac.in

a.k.upadhyay@iitb.ac.in

kushsm@iitb.ac.in

Features in detail:

- a. Commerce
 - i. Occupation based
 - 1. agriculture
 - 2. dairy farming
 - 3. animal husbandry & trade
 - 4. artisans
 - ii. Economy based
 - 1. Remit 2 Village (similar to Western Union Money Transfer)
 - 2. Co-operative society for buying and selling daily essentials, farmer's produce, farming products etc
 - 3. V-room(hospitality)
- b. Education
 - i. Distance learning information
 - ii. Vocational training through CDs
- c. Administration
 - i. v-governance
- d. Information and Communication
 - i. VPost (not e-mail)
 - ii. Village Newspaper(in the form of a web blog)
 - iii. Net telephony
- e. Entertainment
 - i. Astrological predictions
- f. Health and Family
 - i. Tele-medicine
 - ii. Matrimonial services
 - iii. Medicines (similar to co-operative effort mentioned above)