# Project Progress Report A

Text in italics is explanatory and should be deleted in completed documents.

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| **Project Title** | Kisaan Bandhu |
| **Project Members** | 1.Meet Bhanushali - 1711005  2.Govinda Patel - 1711038  3.Parth Sheth - 1711055  4.Shailesh Upadhyay - 1711061 |
| **Reporting period** | Sept - Nov,2020. |
| **Section One: Problem Definition :** | |
| Kisaan Bandhu is an application to empower the farmers by helping them reach the buyer through our application. The application will have a major role of connecting the end users via the application which will basically work as connector application for buying and selling the products which the farmers will directly put over the application for sale.Also we will implement a contract based feature wherein the farmers and the client company can have a production contract between themselves for which this application will be a mediator. | |
| **Section Two: Activities and Progress** | |
| **Problem Definition** - The problem definition for our project contains a brief overview of the task which we will be implementing.It contains the basic activities which our application will provide.  **Scope and objectives** - This section contains the details of the task which we will be implementing.  **Literature Survey** - We have done research on the hardships faced by the farmers in this modernized world.Along with that we have gone through some research papers which are basically the Laws of Indian Government pertaining to the farmer and the products which they are producing and the market  **SRS Document** - The SRS document developed by us contains all the required information regarding the software such as the software and hardware requirements, User Interface, Software quality attributes etc.  **Methodology** - For the methodology we have divided our tasks into separate activities and we will be implementing each activity independently.We have started API generation for the same.  **Future Scope** - In this section we have mentioned the objectives which we have thought upon for future works.These are currently too complex and advanced for implementation.  **References** - We have mentioned some of the Gazette papers containing Laws pertaining to farmers,market and the production.  **Started with API and algorithm generation** - For technical part,most important and complex part is to develop the Algorithm for the implementation.Currently we have prepared a rough outline of how the algorithm will work and the requirements for the same implementation.Also we have started off with API generation which will take care of our major Back-end work. | |
| **Section Three: Financial Statement** | |
| Currently there are no major Financial requirements.Also we are developing this application without any external financial help so till date we have not included any major financial request for the same.Most of the tools we which we will be using are open source tools, hence the cost for purchasing of any software or other implementing application is reduced till greater extent. | |
| **Section Four: Outputs and Deliverables** | |
| The link for ppt which we have developed is as follows-  <https://docs.google.com/presentation/d/17_65cof6kzsLxbJ_Hys2TkiHC7i2_7qmqWnOBjH59Wc/edit?usp=sharing>  The link for the drive where all the important documents and diagrams are present is as follows-  <https://drive.google.com/drive/folders/1xrH4iCGStB4T-_rFhb4q9t3Zught3wzJ?usp=sharing> | |
| **Section Five: Outcomes and Lessons Learned** | |
| Since we are using mostly those technical tools which we are already familiar with there are till date no new learnings in that section of project development.  With regards to the Indian Law and Gazette of India research papers, we got to know more about the previous and current laws which directly or indirectly affect the farmers and their hold in the market. | |
| **Section Six: Dissemination** | |
| -NA- | |
| **Section Seven: Risks, Issues and Challenges and Constraints in all context** | |
| ● Risk :   * Sensitive and personal information must be only accessed by authorised personnel.   For example while buying some product over application care should be taken such that confidential data of other users in the system isn’t revealed. Hence we have to devise a mechanism to ensure this as confidentiality is most important in a database system.  ● Issues :   * Farming has become a secondary profession looked as a symbol of primitiveness and people practicing it leaving it at a very alarming rate, soon this project will become obsolete as none will be left to use it. * After amendment of the agriculture act 2020 protest may impose heavy taxes on deals outside of APMCS to make balance between deals in APMCS and deals outside it. That will make this project financially infeasible. * Since in future, as we have mentioned in future scope, we will try to predict the future demand of the seasonal produce and try to channelize their production to avoid price crash, we may face some environmental and societal hindrance from those who do not try change for the benefit of others as well but would rather stay with the primitive methods and activities.   ● Challenges :   * The main challenge is single/multiple JOINS in the database which may or may not give high accuracy. * A challenge which we will face is to gain a good hold in the current market situation where people tend to generally avoid using some new application if it is not friendly and easy to use. * Use of Travelling salesman problem for routing will not be able to give the most efficient route if the nodes are of extreme values. * Another obstruction which we will face would be by the current dealers as we tend to remove this dealer cycle and hence they will try to hinder our smooth implementation.   ● Constraints :   * Currently supports only english language. * Another technical constraint of our application will be that it will be majorly using GPS (Location services) for best working, so the users of our application must be having some source to update their location (if not by using GPS). | |
| **Section Eight: Institutional &amp; Project Partner Issues** | |
| -NA- | |
| **Section Nine: Next Steps** | |
| * UI/UX design * Refining Backend Algorithms * Building Api * Database Design | |

Comments/Suggestions:

1. Use of more modern algorithms for implementation.
2. Use of machine learning algorithm if possible.

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