jFork Technology Services

AI ENABLED ACADEMIC AND ADMINISTRATIVE PROCESS AUTOMATION OF HIGHER EDUCATION INSTITUTES

Introduction about the Company

- jFork Technology Services (As per Incorporation only)

- www.jforkts.in

- Date (08/08/2022) of Incorporation (CIN)/ Registration

- Sunil F. Rodd, Shrinivas Mangalwede, Shrinivas Dhotre/ Director (s)

#	Name (As per the RoC or Partnership Deed)	DIN Number (In case of RoC Company)	No of Shares
	Sunil F. Rodd	0009699358	33.33%
	Shrinivas Mangalwede	0009699359	33.33%
	Shrinivas Dhotre	0009699360	33.33%

Problem Statement

- In the current higher education system, the faculty is over-burdened with too many tasks, apart from teaching and research. Most of the time is wasted in documentation and repetitive work. We intend to provide a Complete automation of administrative and academic processes in an educational institute(an Engineering institute in particular). Further, the students need proper guidance so as to prepare them well for campus placements and higher studies. The students will be provided with an AI based recommendation system to prepare them well for semester end exams, competitive exams as well as campus placements. This system will enhance the efficiency of the faculty and also suggest appropriate learning paths for students improve their chance of campus placements.

   To automate the academic and admirative processes and using data analytics and AI enhance the overall productivity and quality of education system.

Product/ Solution - Innovation

- The unified approach gives the faculty, HoDs, Placement officer, Purchase committee, Principal and Managment to coordinate every aspect of carrying out the day to day activities in an effortless way.

- We feel its first of kind as we have in knowledge of few ERP products in the domain, that provide only solution to certain aspects of managing day-to-day activities in an educational institute.

- The product is unique in a sense, it not only eases the burden on the faculty, but also helps immensely to meet the requirements of NBA and other accreditation bodies.

- We also wish to explore the use of AI to suggest to HoDs, Placement officer, Principal and Management to point out what are the problem areas and with an AI expert suggestions.

- The students especially who come from rural background, get an AI based recommendation system that provides guidance on, what online courses to enroll for, how to sharpen their technical as well as general aptitude.

- Further, the system can identify academically weak students and predict who is likely to fail in end semester exam based on their internal test performance. Thus these students could be given tutorial classes and thus improve the class pass percentage

Product/ Solution - Readiness Level

The product is at early stage of implementation, with academic module, leave management, course documentation and department admin modules implemented.

• Working Prototype/Proof of Concept

Images of the product : Login Page

Product/ Solution - Readiness Level – Academic System

Product/ Solution - Readiness Level - Documentation

Welcome Professor : 1020 : SIDDHARTH Upload your documents here

DocumentType ⌄ | Choose File | No file chosen | **Upload** | **Back**

Qualifications

| B.E. Degree Certificate | View |

| M.Tech. Degree Certificate | View |

| Ph.D. Degree Certificate | View |

Appointmemnt/Promo/Salary Docs

| Appointment Letter | View |

| Joing Letter | View |

| Promotion Letter | View |

Publications 2022-23 | Add

[1]. Soft Computing Journal   S.F.Rodd, Umakant P   Springer   Jan, 2013   View

Workshopp/Conf 2022-23 | Add

[1]. Workshop on Bigdata Analytics on Spark   KLS, Gogte Intst. of TechnologyBelagavi   16/2/2023   3

Publications 2021-22 | Add

[1]. Intelligent Computing   Bhagyashree   Elsevier   Jan,2021   View

Workshopp/Conf 2021-22 | Add

[1]. Workshop on Android App Development   SDMCET   Dharwad   17/2/2023   3

Publications 2020-21 | Add

Product/ Solution - Readiness Level – Mentoring System

Welcome Prof. Siddharth, your Mentees List

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USN	Name	SEM	Date	Discussion	Delegate		Action	
1. 2BU21CS001	ABDULHA M BARGIR	5	30-12-2023		Self		Save	View
2. 2BU21CS005	ADITYA SINDHE	5	30-12-2023		Self		Save	View
3. 2BU21CS009	AJIT SANJU BASSAPURI	5	30-12-2023		Self		Save	View

Welcome to Leave Management   **Siddharth**   Back

Leave Information of Siddharth

CL Entitled12	Availed 2.5	Balance 9.5	DL Entitled 5	Availed 0	Balance 5	RH Entitled 2	Availed 0	Balance 2	VL Entitled 15	Availed 0	Balance 15

CL Casual Leave ⌄

03 Days ⌄

Exam Duty at Jain College of Engineering and 🔲

30-12-2023   📅

30-12-2023   📅

S. G. Balekundri Institute of Technology, Belagavi

Equipment/Deadstock Procurement Process Automation

| Generate Requirement | → | Get Approval | → | Call Quatations | → | Prepare Comparative Statement | ⬇ |

| Get Installation Certificate | ← | Verify Invoice | ← | Place Order | ← | Send to Purchase Committee | ← |
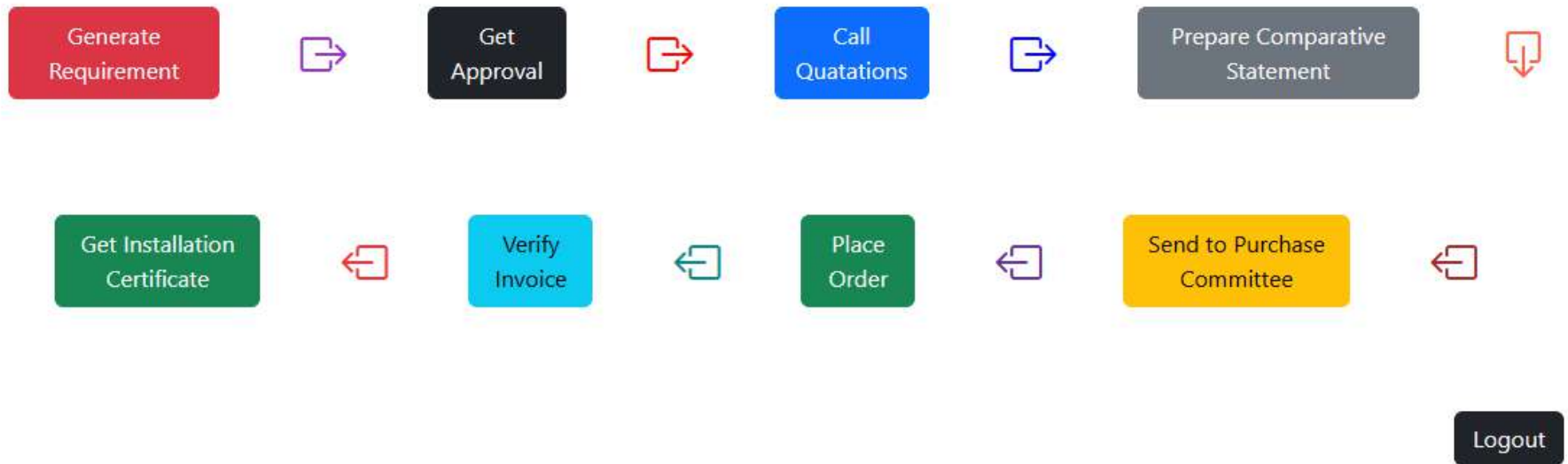
Logout

Department of Computer Science and Engineering Admin DashBoard

Add Faculty

Map Subjects

Map Mentees

InitLeaves

Placement

Add Courses

Purchase Management

Academic Settings

Logout

Socio-Economic Impact of the Project

- First of all it will eliminate lot of paper work and thus reduce the burden on the environment

- Yes, it has immense potential of job creation as the number of customers grow, as we need to provide customer support 24*7

- It will bigger impact on Society as students well trained by faculty would ample opportunities to find jobs and prepare well as they get tips on how to prepare for interview and what skill-sets are expected etc.

Director(s)/ Partner(s)

- Sunil Rodd
- Director
- 30 years/ Ph.D.
- KLS, Gogte Institute of Technology

Team Photos

- Shrinivas Managlwede
- Director
- 27 years/ Computer Science
- KLS,Gogte Institute of Technology

Team Size, Background, Strength /Capability and Resources

Director(s)/ Partner(s)

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- 1-5 Crores (Revenue) of the market which you are addressing
- 10 to 15 Educational Institutes in and around Belgavi with 2000-5000 students in each institute. There is a potential for this product to be adopted by most of these institutions.

Competitors - DHI, Contineo. RoboVidya – Offer very basic management services and very expensive. Very limited features.

Our key USPs :

- Our predict will offer immense value at very competitive price
- Wide range of services from a single platorm
- Data analytics and AI based recommendation system

Business Model & Strategy

Revenue Model - Pricing and Revenue Forecast across years and how it will grow.

Per-Student Rs. 500/year * 1000 students = 5 lakh + GST

Hosting and Maintainance Charges Rs.   3 lakhs per year + GST

Total cost of the product would be – 8 lakhs /year + GST

Business Model
• B2C (Retailing, Franchising, B2B, B2C etc)

Project Milestones

- What will be done at the end of the project?

Develop all Modules

Test and Integrate

Incorporate Data Analytics and AI

Project Milestones

Milestone 1. Develop all Models and Test

Admission Module

Academic Module

Placement Module

Procurement Module

Mentoring Module

Leave Mngmt Module

Project Milestones

Milestone 1. Incorporate Data Analytics and AI in 4 modules

Admission Module	Academic Module	Placement Module
Procurement Module	Mentoring Module	Leave Mngmt Module
	Subject Allotment Module	

Total Budget, Required Support and Regulation

Sl. No.	Budget Head	Expenses
1	Hardware (10 Desktop PCs(i5, 512SSD, 8GB RAM) Rs. 30000/-	Rs. 300000/-
2	Backup Storage : NAS (2 TB)	Rs. 30000/-
3	Printer	Rs. 20000/-
4	Salaries (10 employees @ Rs. 30000/pm) *12 months	Rs. 3600000/-
5	Third party Software (Jasper Report $100/m*84*12)	Rs. 108000/-
6	Hosting on Cloud (Digital Ocean) $50/m*12*84	Rs. 5 0,400/-
7	Office Rent 15000/pm*!2 + Administrative expenses 25000/-)	Rs. 205000/-
8	Travel Expenses	Rs. 1,85000/-
	Grand Total	44,98,400/- (45 lakhs approx.)