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## IT STARTUP TRAINING INSTITUTE

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**Abstract:** – IT startup training institute will serve as a hub for aspiring computer engineers, providing them with the knowledge, skills, and resources needed to thrive in the ever-evolving tech landscape. Our curriculum will be designed by industry experts and academics, ensuring relevance and effectiveness. IT Startup Training Institute seeks to empower individuals with the tools and mindset needed to shape the future of technology. Join us in this journey towards a brighter, more connected tomorrow.

**Index Terms** - knowledge, empower, tools, skills, resource, tech landscape

### I. INTRODUCTION

In the dynamic realm of technology, where innovation is the cornerstone of progress, the demand for skilled professionals in the IT sector continues to surge. Aspiring computer engineers, armed with passion and potential, seek avenues to refine their expertise and navigate the complexities of this ever-evolving landscape. Recognizing this pressing need, our project endeavors to establish an IT Startup Training Institute a beacon of knowledge and empowerment for the budding technologists of tomorrow. The IT Startup Training Institute aims to serve as a nurturing ground, cultivating the talents of individuals eager to make their mark in the digital sphere. With a meticulously crafted curriculum, meticulously designed by seasoned industry experts and academics, we aspire to furnish students with not only theoretical prowess but also practical acumen essential for thriving in the competitive tech industry. Beyond imparting technical skills, our institute pledges to instill a culture of innovation and entrepreneurship. Our mission is not merely to educate but to empower individuals with the tools and mindset requisite for shaping the future of technology.

### II. OBJECTIVES

- Industry-Relevant Content:** Ensure that the curriculum reflects the latest industry trends, tools, and technologies, keeping it up-to-date to meet the demands of the rapidly evolving IT landscape.
- Hands-On Learning:** Provide hands-on training opportunities, workshops, and projects to allow students to apply theoretical knowledge to practical scenarios, fostering a deeper understanding of concepts.
- Career Guidance and Placement Support:** Offer career guidance, counseling, and job placement assistance to help students secure internships and job opportunities in reputable IT companies upon completion of the training program.

4. **Entrepreneurial Skills Development:** Incorporate modules or workshops focused on entrepreneurial skills, encouraging students to explore startup opportunities and equipping them with the necessary knowledge to launch their ventures.
5. **Adaptability to Emerging Technologies:** Stay abreast of emerging technologies and trends in computer engineering, adapting the curriculum and training methodologies accordingly to ensure that students are well-prepared for future challenges and opportunities in the IT industry.
6. **Curriculum Development:** Develop a comprehensive curriculum covering fundamental and advanced topics in computer engineering, including software development, hardware systems, networking, cybersecurity, and emerging technologies.
7. **Ethical and Professional Standards:** Emphasize the importance of ethical conduct, professionalism, and integrity in all aspects of training, instilling these values in students to uphold the highest standards of ethical behavior in their careers.

### III. METHODOLOGY

**Needs Assessment:** Conduct a comprehensive analysis to identify the specific skill gaps and demands within the IT industry. This may involve surveys, interviews with industry professionals, and market research to ensure the training institute's offerings align with industry requirements.

**Curriculum Development:** Collaborate with industry experts, academics, and experienced professionals to design a curriculum that encompasses both foundational computer engineering concepts and cutting-edge technologies relevant to IT startups.

**Infrastructure and Resources:** Establish state-of-the-art facilities equipped with the latest hardware, software, and technological tools necessary for hands-on training and experimentation. Additionally, provide access to online resources, libraries, and collaboration spaces to facilitate self-directed learning and innovation.

**Faculty selection and Training:** Recruit experienced instructors with a blend of academic credentials and industry experience. Conduct regular professional development workshops and training sessions to ensure faculty members stay abreast of emerging technologies.

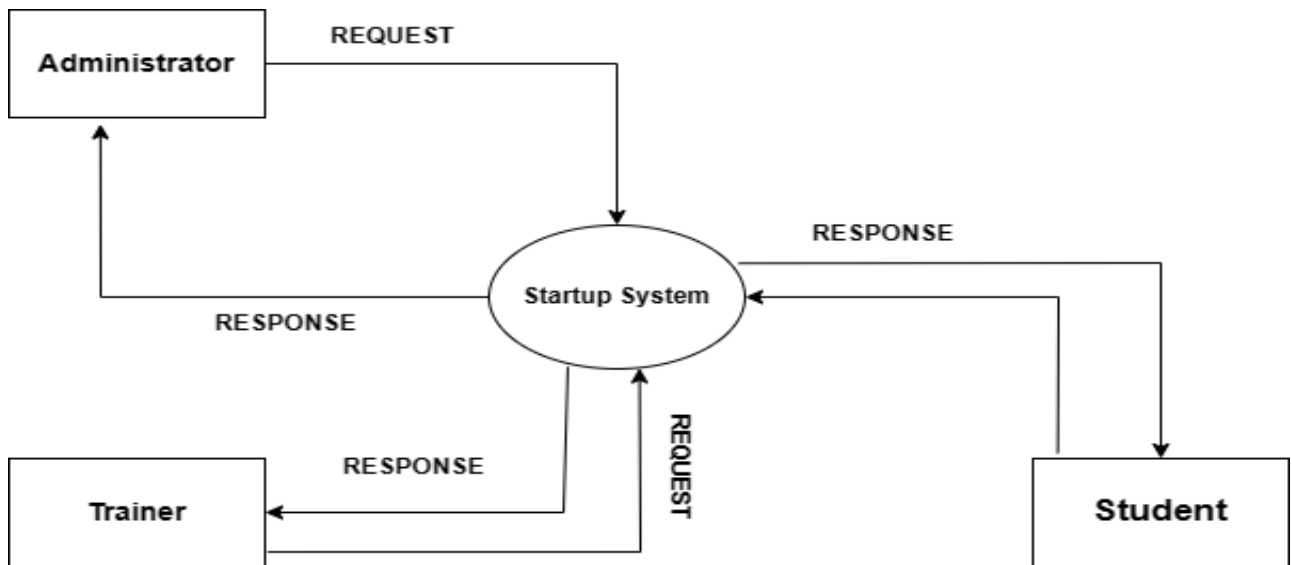
**Entrepreneurship ecosystem:** Create a conducive environment that fosters entrepreneurial mindset and skill development among students. Offer specialized courses, workshops, and mentoring programs focused on business development, startup incubation, funding strategies, and venture management.

**Evaluation and Feedback mechanisms:** Implement robust assessment methods to measure student learning outcomes, including exams, projects, presentations, and peer evaluations. Solicit feedback from students, faculty, and industry partners regularly to evaluate the effectiveness of the training programs and identify areas for improvement.

### IV. MODELING AND ANALYSIS

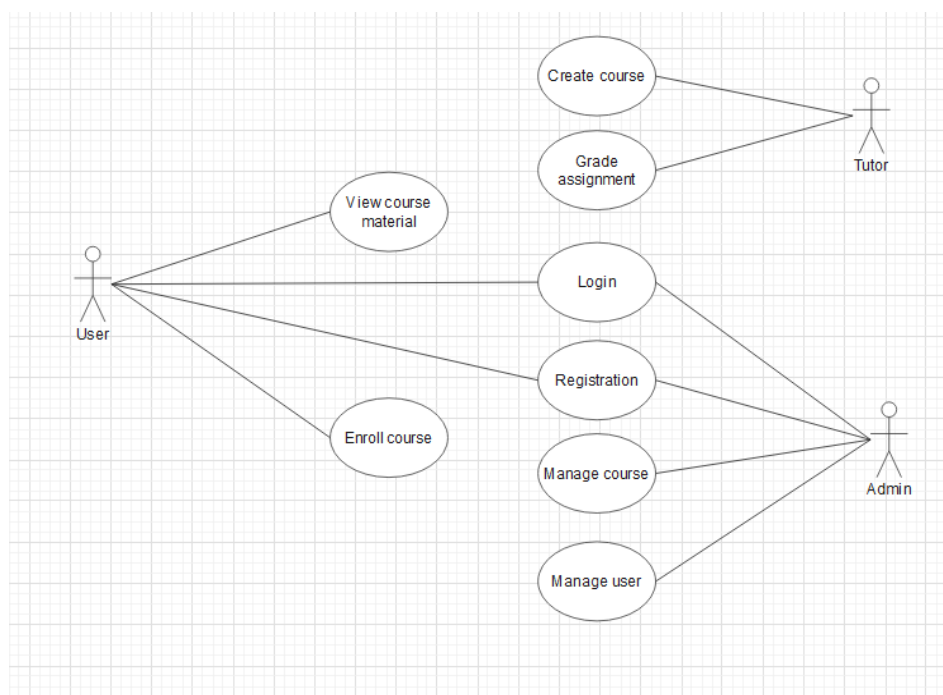
#### 4.1 Proposed System

IT Startup Training Institute which mainly focuses on Data Driven Model and alert-feedback interaction which regulates the way recent supervised samples are provided.



The proposed system is build using JavaScript and Django. This work proposes a IT startup training institute website where user can allow people to learn for personal accomplishment or to earn a professional degree without physically attending a traditional university or academy setting enhance the quality of learning and teaching meet the learning style or needs of learning students.

A use case diagram is a graphical representation of the interactions between actors (users or systems) and a system. In the context of an IT startup training institute, here is a simplified use case diagram that illustrates the primary actors and use cases.



IT startup training institute, the admin (administrator) is responsible for managing and overseeing various aspects of the institute operations. This includes tasks such as course management, user management, technical support, and ensuring the smooth functioning of the online platform. Admins may also handle issues related to instructor and student support and assist in platform maintenance and improvements.

A tutor at an IT startup training institute is an educator or subject matter expert responsible for instructing students in various IT subjects. They facilitate learning, provide guidance, evaluate student progress, and may develop course content. Tutors play a crucial role in helping students acquire the skills and knowledge needed to succeed in the IT startup industry.

Viewing course material for an IT startup training institute involves students logging into the institute's online platform, selecting, and enrolling in courses, accessing a variety of learning resources like videos, text, and assignments, tracking their progress, communicating with tutors and peers, completing assessments, and receiving certificates upon course completion. It is a process that enables students to acquire knowledge and skills related to IT startup development and entrepreneurship.

Enrolling in a course at an IT startup training institute involves selecting a desired course, often from a list of available options, and formally registering for it. This typically requires providing personal information and payment details if applicable. Once enrolled, students gain access to the course materials and resources, allowing them to begin their training in IT startup-related topics.

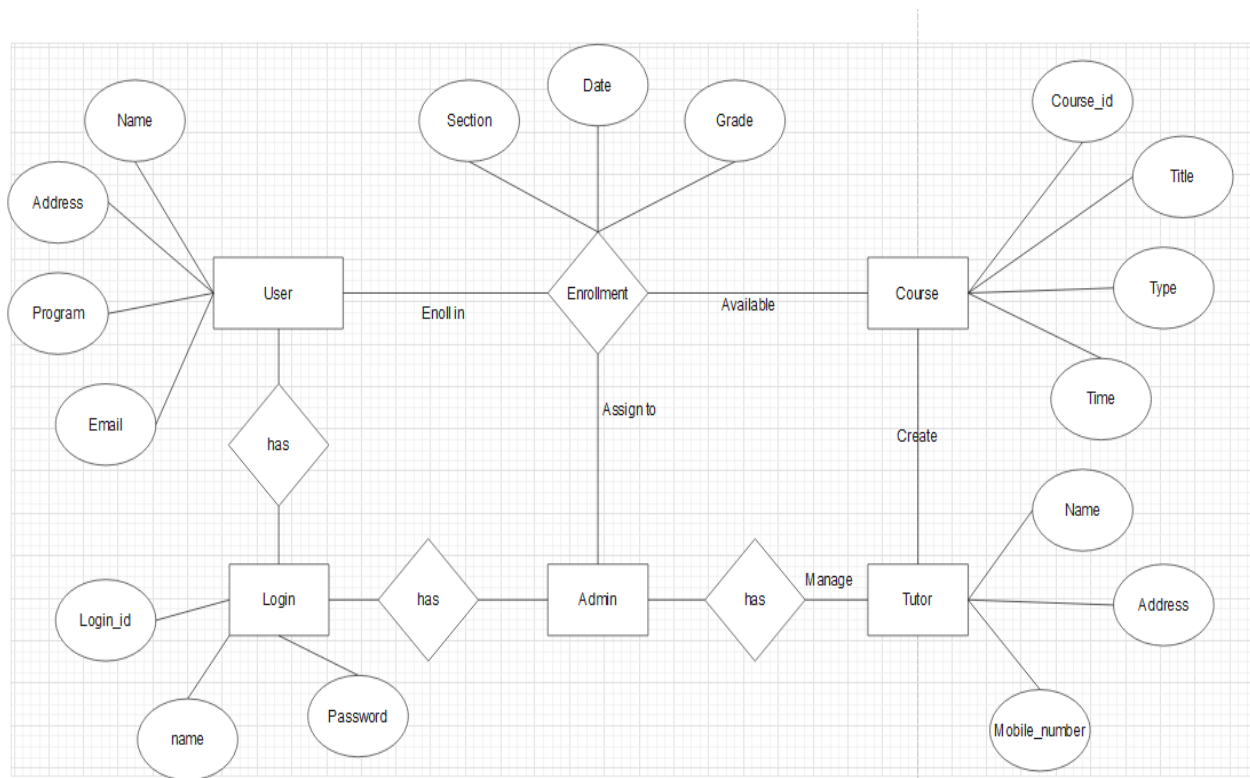
Creating a course for an IT startup training institute involves developing a curriculum, including lectures, assignments, and supplementary materials. Tutor design the course content and structure, set learning objectives, and may use various teaching tools. The course is then uploaded to the institute's online platform for students to enroll in and access.

Users (students or instructors) access the IT startup training institute's online platform by providing their credentials (username and password) to gain access to their personalized dashboard.

New users sign up by providing personal information, creating a username and password, and possibly paying a fee. After successful registration, they gain access to the platform's courses and resources.

Manage in the context of an IT startup training institute involves overseeing various aspects of the institute's operations, such as course scheduling, instructor assignments, student records, platform maintenance, and administrative tasks to ensure the smooth functioning of the training programs and online learning platform.

Managing users for an IT startup training institute involves overseeing user accounts, including student and instructor profiles. This may include tasks such as adding or removing accounts, updating personal information, resetting passwords, and ensuring proper access permissions on the institute's online platform. Administrators are responsible for maintaining a secure and well-organized user database.



**Fig -2:** ER diagram

Here we have different Entities such as User, Tutor, Admin and Courses item.

**User:** IT startup training institute, a "user" refers to an individual, typically a student or instructor, who interacts with the institute's online platform to access courses, training materials, and educational resources. Users may need to log in or register to use these services.

**Admin:** IT startup training institute, the admin (administrator) is responsible for managing and overseeing various aspects of the institute's operations. This includes tasks such as course management, user management, technical support, and ensuring the smooth functioning of the online platform. Admins may also handle issues related to instructor and student support and assist in platform maintenance and improvements.

**Tutor:** A tutor at an IT startup training institute is an educator or subject matter expert responsible for instructing students in various IT subjects. They facilitate learning, provide guidance, evaluate student progress, and may develop course content. Tutors play a crucial role in helping students acquire the skills and knowledge needed to succeed in the IT startup industry.

**Courses:** Courses at an IT startup training institute are educational programs that cover topics related to IT technology. They include lessons, materials, and assessments designed to impart knowledge and skills crucial for launching and managing IT startups. Students can enroll in these courses to gain expertise in areas.

**Login:** Users (students or instructors) access the IT startup training institute's online platform by providing their credentials (username and password) to gain access to their personalized dashboard.

**Enrollment:** Enrollment at an IT startup training institute involves selecting a desired course and formally registering for it. This typically requires providing personal information and payment details, if applicable. Once enrolled, students gain access to the course materials and resources, allowing them to begin their training in IT startup-related topics.

**Username:** A username for an IT startup training institute is a unique identifier chosen by the user during registration. It is used to log in to the institute's online platform and typically helps distinguish one user from another.

**Email-id:** An email ID for an IT startup training institute refers to the unique email address associated with the institute. It's used for communication, sending updates, notifications, and receiving inquiries from students, instructors, and staff.



**Password:** In an IT startup training institute, a password is a confidential combination of characters that users create during registration or when changing their credentials. It serves as a security measure to protect their accounts and ensure that only authorized individuals can access course materials and related resources.

## V. CONCLUSION

IT startup training institute helps to all those who need to learning online courses for improving technical skills as well as personal skill for job. This platform dedicates to learning and teaching or if there are better alternatives. IT startup training offers wide range of courses across diverse subjects, providing flexible, on demand learning. It stands out for its accessibility as well as paid and free course selection. Online courses are suitable for all the students. The "IT Startup Training Institute" project is a pivotal initiative designed to empower aspiring tech entrepreneurs with the knowledge, skills, and resources required to succeed in the ever-evolving world of IT startups. By providing a comprehensive curriculum, expert guidance, practical training, and a supportive community, the project has taken significant strides in nurturing innovation and fostering the growth of IT startups. The participants of the program have gained valuable insights, developed essential skills, and built a network of like-minded individuals, positioning themselves for success in the competitive startup landscape. The project's commitment to continuous improvement and adaptation has allowed it to remain relevant and effective in an industry characterized by rapid changes.

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## VII. REFERENCES

1. Gerhard and P. Mayr, "Competing in the e-learning environmentstrategies for universities," in Proceedings of the Annual Hawaii International Conference on System Sciences, 2002, pp. 3270–3279, doi: 10.1109/HICSS.2002.994405.
2. D. Dicheva, "Ontologies and Semantic Web for E-Learning," in Handbook on Information Technologies for Education and Training, Berlin: Springer, 2008, pp. 47–65.
3. S. Blank, "Why the Lean Start-up changes everything, " Harvard Business Review, May, pp. 635-672, 2013
4. Luis Alfaro, Claudia Rivera, Jorge Luna-Urquizo, Elisa Castañeda, Jesús Zuniga-Cueva, Maria Rivera-Chavez, IEEE, "New Trends in e-Technologies and e-Learning", IEEE, DOI: 10.1109/EDUNINE51952, June 2021
5. Kode, S., Rao, S., Nagaraju, K., Kumar, D.R. 2012. Integrative Learning: Integrating a Course on Human Values with Technology Education. 2012 IEEE International Conference on Technology Enhanced Education (ICTEE 2012), Amritapuri, India. (pp. 3-5)
6. Chowdhury, S. R. , Wardhan, H. , Karri, S.K. R., Kode, S., Nagaraju, K. 2013. Smart Learning Environments for Teaching Electronics to Students. 2013 IEEE Fifth International Conference on Technology for Education (T4E 2013), Kharagpur, India. (pp.173-175)

7. Kode, S., Rao, S., Pavuluri, N., Pullakavi, V., Tammanagari, R.R. 2012. Promoting Learning of Wikis through Video Tutorials, Mentoring and Hands-On Training Approaches. 2012 IEEE Fourth International Conference on Technology for Education (T4E 2012), Hyderabad, India. (pp. 105-110)
8. Lei Minxia, Information literacy Education in the Changing Period, Library Theory and Practice, 2005.6
9. Colombo, M.G. & Piva, E., 2008. Strengths and weaknesses of academic startups: A conceptual model. IEEE Transactions on Engineering Management, 55(1), pp.37 49
10. Reddy, S. K., Kode, S., 2010. Certificate in Information Technology (CIT): A program to enhance the quality of IT education in engineering colleges' education. 2010 IEEE International Conference on Technology for Education (T4E2010), Mumbai, India.
11. Spender, J.-C. et al., 2017. Startups and open innovation: 2017 International Conference on Applied Computer and Communication Technologies (ComCom), Jakarta, Indonesia a review of the literature. European Journal of Innovation Management, 20(1), pp.4 30.
12. Ballu, X. Yan, A. Blanchard, T. Clet, S. Mouton, and H. Niandou, "Virtual Metrology Laboratory for e-Learning," Procedia CIRP, vol. 43, pp. 148–153, 2016, doi: 10.1016/j.procir.2016.02.110.
13. J. Liao, M. Wang, W. Ran, and S. J. H. Yang, "Collaborative cloud: a new model for e-learning," Innovations in Education and Teaching International, vol. 51, no. 3, pp. 338–351, 2014, doi: 10.1080/14703297.2013.791554.
14. Beverly, L. & Leeds, B., 2014. Temporal experiences of e-learning by distance learners.
15. Yanuschik, O. V, Pakhomova, E.G. & Batbold, K., 2015. E-learning as a Way to Improve the Quality of Educational for International Students. Procedia - Social and Behavioral Sciences, 215(June), pp.147 155.