Institution Details

Province	Sindh	City	Karachi
Institution	Institute of Business Administration	Campus	City Campus
Department	Computer Science	Degree Level	BS
Degree Program	Computer Science	Telephone	
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Supervisor Details

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Head of Department Details

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Project Group Details

Team Lead	Team Member's Name	Team Member's Mobile	Team Member's Email	Team Member's Institution Registration Number	Team Member's Year of Study	Team Member's Semester	Team Member's CNIC
NO	Qaisar ali shah	03335330749	qshah@khi.ib a.edu.pk	11601	4	7	71501879779 31
YES	Nasir Mehmood	03155208619	nmehmood@ khi.iba.edu.pk	11566	4	7	71404034327 33

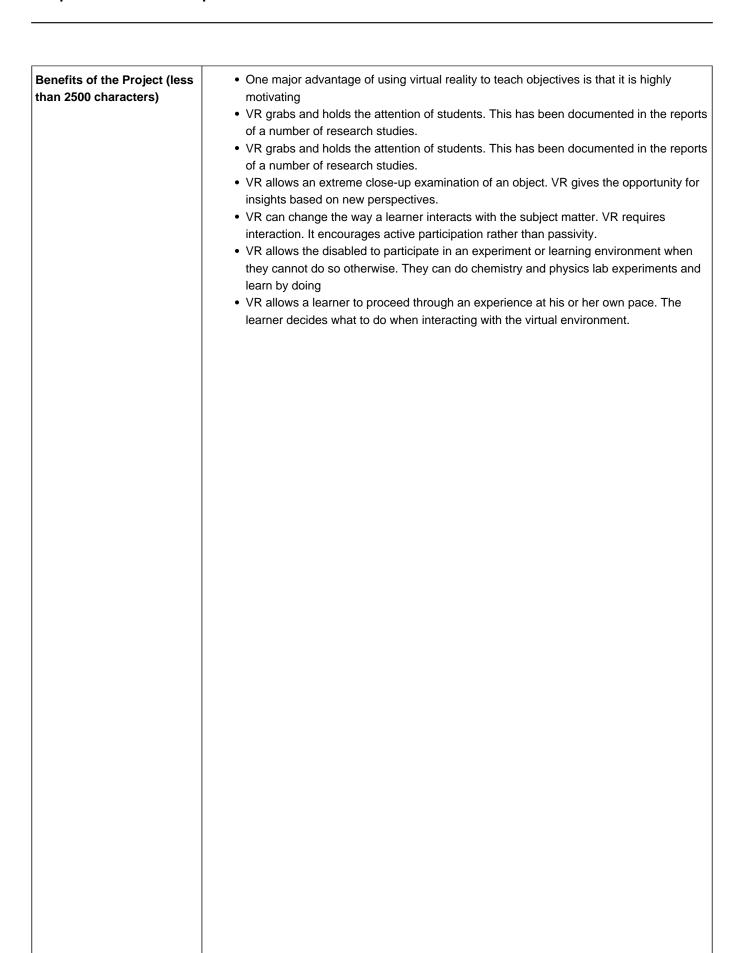
Project Details

Project Title	VR platform for educatopm				
Project Area of Specialization	Augmented and Virtual Reality				
Project Start Date	2019-07-28 Project End Date 2019-07-28				
Project Start Date Project Summary (less than 2500 characters)	VR Based Learning Among many areas, quality eduits development. A number of reinequality of resources, lack of aim to bridge the gap of educate especially to rural areas of the cand this network can be used to least be as effective as the tradictorsera.org present an opport available on their website. Peopfields. But an actual lecture wou and training have been a processomewhat depleted over the rebecomes tougher for the individing formerly mentioned problems is experience. Using this technolo lectures in a 3D form. Creating rather than a passive experience composition of a classroom, on requirement of the content. Multin a virtual environment, factor simality and the each additional copy falls down found a way to send big chunks solution to above-mentioned progiving it a 3D outlook thereby in	cation is what Pakistan is sever easons subject to this problem watechnical and vocational skill devion in Pakistan by extending corcountry. The telecom industry floor grant access to educational colitional method of education. Platitunity for the user to learn a new oble can access this content produid always be better than this coles that has been practiced over cent times. There is a lot more grant to grasp the content elaborate the use of Virtual Reality to create an illusion of an actual classroome. With some time invested in a secondary an important resuch as architecture, and these mersion during a VR based Lector be easily navigable. Meanwhile can be explored to make this was a facquiring knowledge. If one take analysis that the major input is a world merely takes a copy-past to almost nothing— especially secondary will be to create a pool of coreasing attention span and ensugmented visual and audio contents.	rely facing as a core issue for which can include poverty, welopment, among many. We immunication and accessibility burishes on their vast network intent in a way that would at a skill from the video content for the property method. Learning centuries but the essence has soing on around a screen and it attely. Our solution to the fate a better remote learning full classroom that would play immand providing an active full from the video content for the providing an active for the providing an active for the fate and factors can easily be for the virtual classroom will be fate at later stages, the shole experience strictly subject for the fate at later stages, the shole experience strictly subject for the Homo sapiens have a tit all up, a cost-effective of educational content and sturing active learning for		

Project Objectives (less than 2500 characters)	A conceptual basis for educational applications of virtual reality can be, 1) immersive VR furnishes first-person non-symbolic experiences that are specifically designed to help students learn better. 2) These experiences cannot be obtained in any other way in formal education. 3) This kind of experience makes up the bulk of our daily interaction with the world, though schools tend to promote third-person symbolic experiences. 4) Constructivism provides the best theory on which to develop educational applications of VR. 5) The convergence of theories of knowledge construction with VR technology allows learning to be enhanced by the manipulation of the relative size of objects in virtual worlds, by the transduction of otherwise imperceptible sources and by the visualization of abstract ideas that have so far defied representation.

Project Implementation Method (less than 2500 characters)

- Step 1. The specific course objectives are defined(e.g chemistry, physics, etc).
- Step 2. The objectives that could use a simulation, computer-generated simulation or virtual reality (a 3D simulation) as a measurement or means for attainment are selected. Reasons to use and advantages of using simulations and virtual reality are considered when making the selections.
- Step 3. Refine the selection list by choosing those that can use a 3D simulation, using virtual reality, as a measurement or means for the attainment of course objectives.
- Step 4. Determine the type of interaction with, and sensory input and output to and from, the virtual world or environment needed, (e.g 3D sound, audio, visual, text, gesture).
- Step 5. The virtual environment (VE) is designed and built. According to requirements of the objective, it may be built by an instructor (teacher), by the students or obtained prebuilt and modified.
- Step 6. The resulting virtual environment is evaluated using a pilot group of students.
- Step 7. Evaluation results are used to modify the virtual environment.
- Step 8. Evaluation results are used to modify the virtual environment. Evaluation and modification continue as long as the virtual environment is used with the target population.



Technical Details of Final	 VR based user interactive interface design
Deliverable (less than 2500	 Unity 3D/React based application for VR content
characters)	• 3D video/images
	VR headsets i.e Oculus Rift, Google cardboards
	Gyroscope supported smartphones
	Gyroscope supported smartphones

Final Deliverable of the Project	HW/SW integrated system
Type of Industry	Education
Technologies	Augmented & Virtual Reality
Sustainable Development Goals	Quality Education, Gender Equality

Project Key Milestones

Elapsed time in (days or weeks or month or quarter) since start of the project	Milestone	Deliverable
Month 1	Analysis and Documentation	Word Docs
Month 2	Finalizing base requirements from research papers collected	Word Doc
Month 3	Deciding upon initial system design	Wireframe
Month 4	Identifying missing System requirements	Word Doc
Month 5	Reviewing and finalizing system design	wireframe
Month 6	Coding and development	1st Prototype
Month 7	Unit and System of prototype	Beta Version Prototype
Month 8	Coding and devlopment	Finalizing product
Month 9	Testing and deployement	iOs/Android application

Project Equipment Details

Item Name	Туре	No. of Units	Per Unit Cost (in Rs)	Total (in Rs)
VR headset (All in one standalone)	Equipment	2	35000	70000
Experimental costs (Google Cardboard etc)	Miscellaneous	1	10000	10000
			Total in (Rs)	80000

I affirm that all information submitted through this FYP application is correct and complete as to my best knowledge. I further agree that Ignite can approve, reject, defer or cancel this FYP application without mentioning any reason at any stage of NGIRI 2019. Information cannot be changed after submission.