KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

INDIAN INSTITUTE OF SCIENCE, BANGALORE - 560012

A PROJECT REPORT
On

"HYBRID WIRELESS SENSING DESIGN FOR INSTANT NOTIFICATION OF ALERTS FOR REAL-TIME EVENT DETECTION"

For
BACHELOR OF ENGINEERING
In
COMPUTER SCIENCE & ENGINEERING

Submitted
By

SHILPA N	(1JV08CS036)
SHRUTHI D	(1JV08CS038)
VEDAVATHI R	(1JV08CS050)
ASHWINI M.S.	(1JV09CS401)

Under the Guidance of

Mrs.Bhavya K.S.
&
Ms.Rajeshwari L.
Dept. of CSE

Department of Computer Science & Engineering

JNANAVIKAS INSTITUTE OF TECHNOLOGY
Bidadi, Ramanagaram District.

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ABSTRACT

The dissertation highlights about a noble approach which is deployed to design an architecture with an amalgamation of hardware in terms of motion detectors and software in terms of our prototype application design in java. The interface design in the application will work in real time scenario with the assistance of GSM network. In this project work, the intelligent camera grabs the video once any event is detected using the motion sensor for any activity occurring within the range of the location where the specific sensor device is installed. The application tracks the object instantly, grabs the image and instantly sends the image feed to the user's cellphone as well as in e-mail box using remoting technology. The proposed method automatically extracts silent events from the video and transmits each event sequence into a concept by remoting technology.

The project work also shows some of the unique feature which can be extract by the utilization of motion detection instrument which in also integrated with application server Apache Tomcat, which is again integrated with the GSM hardware as well as integrated web camera mounted with in the sensing range of the motion detection instrument. The dissertation will also highlight some of the unique style of design description which has followed the standard of "Pressman" style for making the high level design as well as context flow diagram. The detailed design chapter will highlight almost all the possible UML diagrams which was constructed for the purpose of the design of the project in waterfall model. Finally testing phase of the project will show some of the evaluation results with respected test case scenario with respect to unit testing, integration testing, as well as system testing too.