Title of the Project   :     AUTOMATED RAILWAY SIGNALLING SYSTEM USING HASH ALGORITHM

Name of the Students  :   GIRIJA.A ,ISNEHASHANLKAR.S ,LINNET BLESSY.M

Register Number(s)      :    211419104078,211419104108,211419104147

Name of the Guide       :     S.T SANTHANALAKSHMI ,M.Tech

**ABSTRACT**

Human development is directly related to the transport facility. India has been

starting its transport through railways since 19th century. The Indian railway

system is very big and very complicated. When generation moves forward, the

technology and complexity are also moves to its higher levels. Now days, there

is no exact communication between Indian railways and passengers **.**So we

introduce Automated Railway Signaling System (ARSS) which automatically

collect the information about the Train. The movements of the train can be

controlled based upon the signal which will be automatically generated by the

system.In this system, we get the train's arrival time at the station with the help

of an RTC and proximity sensor, update the information in the Java web

application with the train's ID with the help of an RFID module.If another train

arrives in the same track, it will automatically intimate the co-driver to allocate

the track according to their availability in order to send to their respective platform, and also send updates to the co-driver with the help of a ZIGBEE

transmitter. Then the Java web application will send Gmail to the persons who

are logged into the web application.We are planning to provide a system to

automatically collect the information about trains and make the schedule based

on track availability.