

Visvesvaraya Technological University "JnanaSangama" Belagavi: 590018

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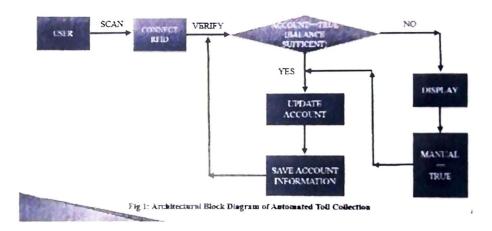
VTU Sponsored Student Project Proposal Format

01	Academic Year:	2021-2022					
02	Semester:	VIII					
03	Name of the College:	K.S SCHOOL OF ENGINEERING AND MANAGEMENT					
04	Branch:	COMPUTER SCIENCE AND ENGINEERING					
05	Project Title:	Automated Toll Management with Smart Light System (Swiftify)					
06	Project Discipline:	Automated Toll Collection and Power Conservation					
07	Principal	Name:	Dr. K.Rama Narasimha				
		Contact No:	+91 9606055906				
		Email id:	principal@kssem.edu.in				
08	HOD	Name:	Dr. K Venkata Rao				
		Contact No:	9343751362				
		Email id:	hod.cse@kssem.edu.in				
09	Project Guide	Name:	Mrs. R S Geethanjali				
		Contact No:	8431492915				
		Email id:	geethanjali.rs@kssem.edu.in				
10	Project Co-Guide(If any)	Name:	-				
		Contact No:	-				
		Email id:	-				
11	Project Committee	Name:	Dr. PN Jyothi				
	coordinator	Contact No:	9663080471				
	(Identified by the college):	Email id:	jyothi.p.n@kssem.edu.in				

7 20							
12		Name of pro	oject group Members				
12	1.Group leader						
-		av Swamy P.M					
		7CS015					
		020419					
	Email id:						
	bhargav.swamy@gm	nail.com					
	2.Member						
	Name: Bhara	adwaj B.S					
	USN No.: 1KG1	17CS012					
	Contact No: 9916	268260					
	Email id:						
	bharadwajbs22@gm	ail.com	and I was a second				
	3.Member						
	Name: Suyo						
	CBITTO:	G16CS110					
	Contact No: 994.	5543745					
	Email id:						
	suyogguddu26@gma	il.com					
	4.Member						
	Tidillo.	rath B.S					
	CBITTO	G16CS094					
	Contact No: 819	7832079					
	Email id:						
	sharathsan99@gmail		to the literal collection on tall place				
13	Scope /		ate toll tax collection on toll plaza.				
	Objectives	2. To Save to	ime and fuel being exhausted due to wait on toll plaza.				
	of the	3. To save el	lectricity on street lights.				
	project:						
14	Methodology	1. Owner of the vehicle must register his/her car with Swi					
	of work:	deposit so	ome minimum amount to receive a Smart Card.				
	(Including	_	ne a vehicle approaches the toll booth, first the Infrared				
	diagram, flow chart						
	and design calculations)	sensors will detect the presence of the vehicle which					
	Carculations	activates	the RFID circuit to read the RFID enabled Smart Card				

- Transaction will begin, Toll performs a check if the required toll fee is available in the Smart Card or not.
- 4. If yes, toll tax will be deducted directly or else the person needs to pay the toll tax manually with a fine.
- Smart street lights are switched ON only if visible light is low [usually at night] and when there is vehicle movement in the road.

METHODOLOGY



METHODOLOGY (CONTD.)

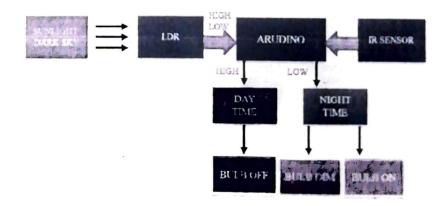
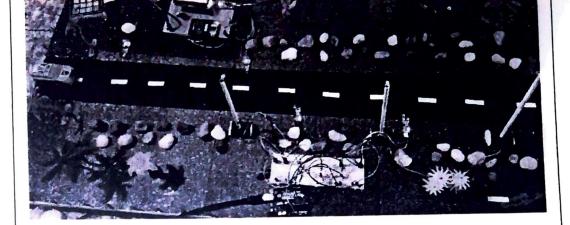
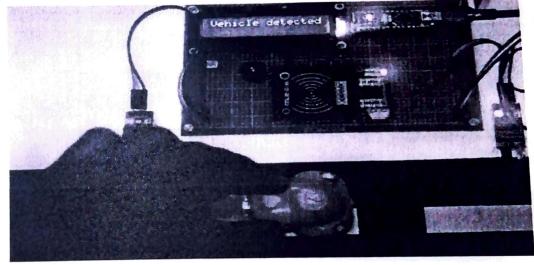


Fig 3 : Architectural Block Diagram Of Smart Light System

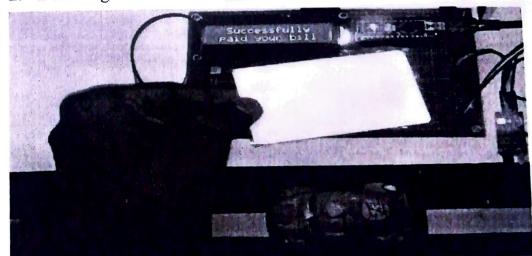
Outcome of the project:



1. Design of the Highway



2. Detecting the vehicle at Toll Plaza



3. Successfully paid the Toll bill

		4. Smart Street Light							
16	Application of the project:	 Reduction of time in Toll Plaza. Reduction of electrical power usage of street lights in Highways. 							
17	Budget details with Materials required:	Budget a) Materials / Consur b) Labor c) Travel d) Report e) Miscellaneous Total	Amount 8,000.00 1,000.00 1,000.00 1,000.00 1,000.00 12,000.00						
18	Project:	nencement of the		01-10-2021					
19	Probable date project:	of completion of the		30-06-2022					
20	Duration of p			9 Months					
21	Pert chart for completion of the project in said duration as per planned activities:								

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Annexure I

5 Month/ 6 Month/	Week													Inne	4 Weeks	
5 Month/	Week										Mav	4 Weeks				
3 Month/ 4 Month/	Week								Feb/Mar/	April 12 Weeks						
3 Month/	Week					Dec/Jan	8 Weeks	STATE OF STREET								
1 Month/ 2 Month/	Week			November	4 Weeks											
1 Month/	Week		4 Week													
Activities	Planned	Literature	review	Planning/	Designing	Assembly/	Fabrication	work	Final	Testing	Result &	Calculation/	Conclusion	Preparation	of Report &	Submission
SI.No		0.1	10	0	70		03			04		05			90	

DECLARATION BY THE STUDENTS

t group members hereby declare that the details enclosed in the project ie and correct to the best of our knowledge. We undertake to inform VTU, there in the project title, students name will be intimated immediately. In the above information is found to be false or untrue or misleading, we are may be held liable for it.

that the project group has to exhibit / demonstrate the project for evaluation Regional centre and for exhibition at VTU, Belagavi. If the project group I the evaluation in Regional centre and for Exhibition in VTU Belagavi, the roject amount will be returned back to VTU immediately

eby, enclose the endorsement form to VTU, Belagavi.

SL.No	Name of the Student	Signature with date
01	Bhargav Swamy P.M	Shougar Swany 22/1/2022
02	Bharadwaj B.S	Bhorodus B5 22/7/2022
03	Suyog L	241019099 Smhot-1
04	Sharath B.S	J. 102 /2012