## Project Design Phase-IProposedSolutionTemplate

Date	03/11/2022
TeamID	PNT2022TMID36626
ProjectName	IOTBasedSafetyGadgetforChildSafetyMonitoring &Notification
MaximumMarks	2Marks

## ${\bf Proposed Solution Template:}$

Project teams hall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	ProblemStatement(Problemtobeso	Nowadays, crime rate associated with
	lved)	childrenkeeps increasing due to which draws
		peoples' attention regarding childs a fety.
2.	Idea/Solutiondescription	, IoT is applied to propose a wearable smart
		bandwhichhelpsparentstomonitorandgetknowno
		ftheir child's condition at anywhere and
		anytimeeveniftheyarenotbytheirchildrenside
3.	Novelty/Uniqueness	The IoT smart band increasing despite
		actionshave been taken by the government.
		Revealed by[9], the overall percentage of child
		abasementsworldwide is about 80% nowadays,
		out of which74% are girls and the remaining are
		boys.
		Forevery40seconds, achild is gonemissing in the
		world
4.	SocialImpact/CustomerSatisfaction	Research methodology, a method for
		identifying, collecting, processing and
		interpreting data usingsome techniques, then
		drawing conclusions toaddress the problem. It is
		a significant sectionsince it allows readers to
		evaluate overall validityand reliability of the
		research paper [20]. For
		this research, online question naireand semi-
_		structuredinterviewareemployed.
5.	BusinessModel(RevenueModel)	Throughout the research, it is clearly
		explainedthe IoT concept, child safety issues and
		the needof using child security system. Some
		previousstudies have been included for designing
		the IoT-based child security smart band. It assists
		parentsto monitor their children remotely. In
		casesituations happen, notifications will be sent
		toparentssothatactionscanbetaken.Throughthis,
		child safety can be ensured and crime ratewill be
		reduced. However, the proposed device
		isnotrobustenoughanddoesnotcontainsufficient
		functionsto operateslikeamobilephone.

6.	ScalabilityoftheSolution	Thispaperismainlystreamedtowardschildsafety solutions by developing a gadget which canbe tracked via its GPS locations and also a panicbutton on gadget is provided to alert the parentvia GSM module calling for help. Parental androidapp is developed to manage and track the deviceanytime. Smartgadgetdevice is always connected.
		ted toparentalphonewhichcanreceiveandmake

phone calls and also receive SMS on gadget viaGSM module, also a wireless technology isimplemented on device which is useful to boundthe device within a region of monitoring range, ifdevice is moving out of monitoring range then analert will be triggered on binding gadget, thishelps you keep a virtual eye on child. Healthmonitoring system on gadget checking forparameters like heart beat/pulse rate andtemperature is included which can be monitoredonparentalapp. Gadgetalsomonitorswh etheritispluggedonhandornotusingcontactswitch andalerttheparentassoonasitisunplugged.