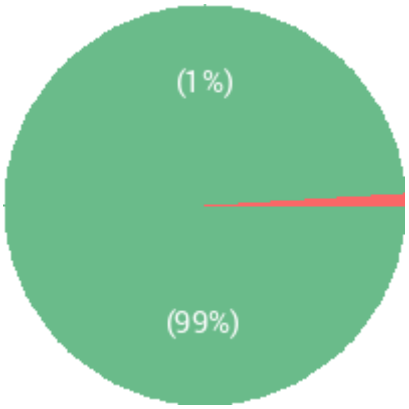

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on
WebPageDevelopmentUsing
ReactJs
DevelopedBy: GuidedBy:
ManushiGajjar(20162101004) Prof.UmeshPrajapati(Internal)
DevParmar(21162122003)
TanishkPatel(20162121020)
Nachiketkhamar(21162102004)
Submittedto
FacultyofEngineeringandTechnology
InstituteofComputerTechnology

GanpatUniversity

Year:2024

CERTIFICATE

ThisistocertifythattheIndustryProjectworkentitled“WebPageDevelopmentUsingReactJs ”byDevParmar(21162122003),ManushiGajjar(20162101004),TanishkPatel(20162121020), Nachiketkhamar(21162102004)ofGanpatUniversity,towardsthepartialfulfillmentof requirementsofthedegreeofBachelorofTechnology–ComputerScienceandEngineering, carriedoutbythemintheCSE(CBA/BDA)Department.Theresults/findingscontainedinthis ProjecthavenotbeensubmittedinpartorfulltoanyotherUniversity/Instituteforawardofany otherDegree/Diploma.

Name&SignatureofInternalGuide

Name&SignatureofHead

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1

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MANUSHIGAJJAR(EnrollmentNo:20162101004)

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ABSTRACT

ThisprojectexploresfrontenddevelopmentusingReactJS,aimingtocreateadynamicand user-friendlywebapplication.LeveragingReact'scomponent-basedarchitectureandvirtual DOM,theprojectfocusesonbuildingreusableUIcomponents,efficientstatemanagement,and seamlessintegrationwithexternalAPIs.Throughcomprehensivetestingandoptimization,the goalistodeliverresponsiveandperformantapplication.Collaborationwithbackend developersensuressmoothdataflowandintegration.Theproject'soutcomeisafeature-rich frontendapplicationthatmeetsprojectrequirementsanduserexpectations,contributingtoa positiveuserexperience.Feedbackanditerationdrivecontinuousimprovementtoalignwith evolvingneedsandstandards.

TABLEOFCONTENTS

CHAPTER:1INTRODUCTION

ReactJShastransformedthelandscapeoffrontendwebdevelopment,offeringapowerfultoolkit forcreatingdynamicandinteractiveuserinterfaces.Imagineyou'rebuildingasocialmedia platformwhereuserscansharephotosandengagewitheachother.ReactJSallowsyouto developmodularUIcomponents,suchasaphotofeed,commentssection,anduserprofiles. Eachcomponentencapsulatesitslogicandpresentation,promotingcodereusabilityand maintainability.

Forinstance,thephotofeedcomponentcandisplayagridofimagesfetchedfromaserverusing React'sdeclarativeapproachtodatabinding.Thecommentssectioncomponentenablesusersto interactwithposts,withreal-timeupdatesfacilitatedbyReact'svirtualDOMandefficientstate management.Additionally,userprofilescanbedynamicallyrenderedbasedonuserdata retrievedfromadatabase,providingpersonalizedexperiences.

ByleveragingReactJS,youcancreateaseamlessandresponsiveuserexperience,enhancing engagementandsatisfaction.Itsflexibilityandscalabilityempowerdeveloperstoiterateapidly andadapttoevolvingrequirements,ensuringthesuccessofyoursocialmediaplatforminthe competitivedigitallandscape.

CHAPTER:2PROJECTSCOPE

TheprojectscopeentailsthedevelopmentofafrontendapplicationusingReactJS, encompassingvariousessentialaspectsofmodernwebdevelopment.Itinvolvesdesigningand implementinganintuitiveandvisuallyappealinguserinterface,comprisingreusableUI componentslikenavigationbars,forms,andmodals.Theapplication'sfunctionalitywillbe

enhancedthroughefficientstatemanagementandseamlessintegrationwithexternalAPIsto fetchanddisplaydynamicdata.Additionally,client-sideroutingwillenablesmoothnavigation betweendifferentviewsorpages.Emphasiswillbeplacedonensuringresponsivenessacross devices,comprehensivetestingforfunctionalityandreliability,andproperdocumentation. Collaborationwithbackenddevelopersandstakeholderswillensurethesuccessfulintegrationof thefrontendwiththeoverallprojectobjectives.

CHAPTER:3SOFTWAREANDHARDWAREREQUIREMENTS

MinimumHardwareRequirements

Processor 2.0GHz

RAM 4GB

HDD 512GB

3.1MinimumHardwareRequirements

MinimumSoftwareRequirements

OperatingSystem

Anyoperatingsystemwhichcansupportaninternet browser.

ProgramminglanguageCSS,HTML,ReactJs

Othertools&technologiesInternetbrowser

3.2MinimumSoftwareRequirements

CHAPTER:4PROJECTPLAN

?RequirementGatheringandAnalysis.

?DesignPhase.

?Development.

?Testing.

?OptimizationandPerformanceTuning.

?Documentation.

?Deployment.

?Post-DeploymentSupportandMaintenance.

CHAPTER:5IMPLEMENTATIONDETAILS

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