UPES
UNIVERSITY WITH A PURPOSE

School Of Computer Science
University Of Petroleum and Energy Studies
P.O. Bidholi, Via-Prem Nagar DEHRADUN-248007

Issue Date:_____

Bachelors of Technolgy in Computer Science & Engineering

Minor | II | Major

Project Title	Digitalization of Land Records using Blockchain	Mentor Name	Project Number / Deepak Kumar Sharma

S.No	Rollnumber	Branch	Name	Role	Signature
1	R103219016	CSE BAO	Sharique Ahmad Khan	Research, Coding, Testing	
2	R103219013	CSE BAO	Sachin Kedia	Research, Coding, Testing	
3	R103219007	CSE BAO	Ishan Agarwal	Research, Coding, Testing	

Project Mentor

Cluster Head

Date							Project Status
	Understanding of Project	Project Working	Soft Skills	Report	Mentor Marks	Total Marks	Activity Coordinator
R.No	25 Marks	35 Marks	10 Marks	15 MARKS	85 MARKS	100 MARKS	

Synopsis Evaluation

Theoretical Understanding

Rollno	Problem(4 Marks)	Algorithm(4 Marks)	Data /Data structure(4 Marks)	SWOT Analysis(4 Marks)	Area of Application(4 Marks)	Total Marks(20)

Panel Remark

Reviewer 1	Reviewer 2	Reviewer 3	Reviewer 4	Reviewer 5

Mid- Term Evaluation

DESIGN & DEVELOPMENT

Rollno	Technical Diagram(5 Marks)	Programming Concepts(5 Marks)	IPC(5 Marks)	Libraries(5 Marks)	SRS(10)	Total(20 Marks

Panel Remark

Reviewer 1	Reviewer 2	Reviewer 3	Reviewer 4	Reviewer 5

End-Term Evaluation

Testing & Implementation

Rollno	Theoretical Knowledge(5)	Computational Knowledge(5)	Test Case (10)	Soft Skills (10)	Report(5)	Core Computational Skills(15)	Total (50)

Panel Remark

Reviewer 1	Reviewer 2	Reviewer 3	Reviewer 4	Reviewer 5

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Bachelors of Technolgy in Computer Science Engineering

Minor II **Major**

Project Title	Digitalization of Land Records using Blockchain	**Mentor Name**	Deepak Kumar Sharma

Abstract

Today's Land Record Management System is plagued with multiple loopholes which result in discrepancies in records, resulting in a burden of court cases on judicial system. Some problems with current land record systems are:
1. Errors in public records affects ownership rights and cause financial strain
2. Illegal deeds by not documenting prior titles in the chainage may affect the ownership
3. Forged or fabricated documents affect the ownership
4. Undiscovered encumbrances (Ongoing Cases)
5. Boundary Disputes
This project attempts to resolve these issues by implementing a blockchain network to store and manage land records. The project will store cryptographically secured history of land records as a blockchain ledger on all nodes of the system.

Objective

Securing Land Records by implementing a distributed ledger over a peer to peer network.
Sub Objectives:
1. and Sell ability to all users.
2. Implementing Proof Of Authority based Consensus mechanism
3. Securing plot transactions using digital signature and hashing techniques.
4. Implementing a peer to peer network to enable distributed ledger

Methodology

A blockchain based land record management system will be implemented in python, where seller and buyer can directly and securely transact their land details. The admin will verify the transactions and bundle them up in a block. This block will be stored in a distributed immutable ledger called blockchain. Concepts of digital signatures and hashing will be implemented to keep the transactions secure.

Progress 1

	Marks	10	10	10	10	10	10	10	15
Mentor Remark	**Roll Number**	**Step 1**	**Step 2**	**Step 3**	**Step 4**	**Step 5**	**Step 6**	**Step 7**	**Internal**
	Date/Mentor Signature								

Progress 2

	Marks	10	10	10	10	10	10	10	15
Mentor Remark	**Roll Number**	**Step 1**	**Step 2**	**Step 3**	**Step 4**	**Step 5**	**Step 6**	**Step 7**	**Internal**
	Date/Mentor Signature								

Guideline: 1) A project group can be of maximum 4 members and no alteration in the group member will be entertained later.
Guideline: 2) Methodology should have following steps Step1: Literature Review; Step2: Identification Of Requirement (Type Of Data source, Amount Of Data, & Format of Data); Step3: Identification of Algorithm; Step4 : Comparative study; Step5: Design and Development of System/Architecture; Step 6: Implementation; Step7: Results
Guideline:3) Student should upload softcopies of all the documents (reports and power point presentations) in "Project Directory", 24 hrs prior to evaluation.
Guideline:4) Panel member will give feedback to individual on the scale of 1 to 5 and this scale will change for defaulter i.e. 1 to 3 scale.
1: Poor 2: Average 3: Good 4: Excellent 5: Outstanding