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II SEMESTER M.TECH. (SOFTWARE ENGINEERING) IN-SEMESTER II EXAMINATION, MAY 2023

SUBJECT: Elective III: FULL STACK WEB DEVELOPMENT [ICT 5021]
REVISED CREDIT SYSTEM

Time: 1 HOUR MAX. MARKS: 15

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- Missing data may be suitably assumed.
- 1. Explain advantages of using single page application over multi-page application

3M

- 2. For the webpage shown in Figure 1, identify the following:
 - Various react components.
 - Different states and properties
 - Identify where each state should reside

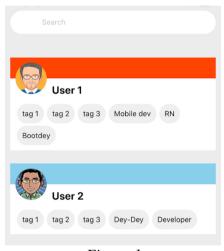


Figure 1

- 3. Create a simple react component named "user" which will return one row of a table with two columns, name and role.
- 4. With an appropriate example, differentiate between linking and embedding in MongoDb.
- 5. Implement the following using MongoDB query language. The student documents inside students collection of 'mydb' database is shown in Fig 2.

Name	Marks	Section
XX	100	A
YY	200	A
PP	300	В

Figure 1

- Insert a new student document (ZZ, 200, B)
- Find the students who have scored less than 150 marks

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3M

2M

3M

Q3. Sample React Component

```
import React from 'react';

const HelloWorldComponent = () => {
    return ( <h1>Hello World</h1> );
}

export default HelloWorldComponent;

Q5.
db.<collection>.insertOne({<field>:<value>})
db.<collection>.find({<field>: {$lt : <value>}})
```

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