

Course: Web Application Development

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Lab 7 – NodeJS and React

MySQL Server:

Create following tables

```
-- -----  
  
--  
-- Table structure for table 'course'  
--  
  
CREATE TABLE IF NOT EXISTS 'course' (  
  'CourseID' bigint(20) NOT NULL auto_increment,  
  'CourseName' varchar(255) NOT NULL,  
  PRIMARY KEY ('CourseID'),  
  KEY 'Course_CourseID_INDEX' ('CourseID')  
) ENGINE=InnoDB DEFAULT CHARSET=utf8 AUTO_INCREMENT=5 ;  
  
-- -----  
  
--  
-- Table structure for table 'student'  
--  
  
CREATE TABLE IF NOT EXISTS 'student' (  
  'StudentID' int(11) NOT NULL auto_increment,  
  'StudentName' varchar(255) NOT NULL,  
  PRIMARY KEY ('StudentID')  
) ENGINE=InnoDB DEFAULT CHARSET=utf8 AUTO_INCREMENT=6 ;  
  
-- -----  
  
--  
-- Table structure for table 'studentcourse'  
--  
  
CREATE TABLE IF NOT EXISTS 'studentcourse' (  
  'StudentID' bigint(20) NOT NULL,  
  'CourseID' bigint(20) NOT NULL,  
  PRIMARY KEY ('StudentID', 'CourseID'),  
  KEY 'StudentCourse_StudentID_INDEX' ('StudentID'),  
  KEY 'StudentCourse_CourseID_INDEX' ('CourseID')  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

NodeJS Server:

- Create a connection to your MySQL database.
- Create new api for signin (example: POST /signin/). In this assignment, the user will login successfully if username = password = StudentID.
- Create new api to retrieve all courses in table 'course'.
- Create new api to register courses.
- Create new api to retrieve all current user's registered courses.
- Create new api to update current user's registered courses.

React Server:

- Create a login page
- Create a page to register courses.
- Create a page to display current user information (student id , name, and registered courses)