

# Web\_Lesson7: MEAN Stack

Please do not forget to submit your feedback after the class. This feedback helps a lot in increasing the effectiveness of the course. Use the related Canvas survey to submit your ICP # and feedback

## Lesson Overview:

In this lesson, we are going to discuss MongoDB, Express.js, NodeJS, and MEAN stack.

## Use Case Description:

### Library Management System:

The user can add and view the books from the collection of books in the library.

## Programming elements:

MongoDB, Express.js, Node.js, and MEAN stack

## Source Code:

<https://umkc.box.com/s/ykltjmzgiuz7kncatwsx60kzkopr06xs>

## Instructions to execute Source Code: *LibraryManagementSystem*

Step1: Start the Mongo Server (Refer Installation PPT)

Step2: Install node modules (command: '**npm install**')

Step3: Start node server (command: '**npm run start**')

Step4: Navigate to localhost (**http://localhost:3000/**) to display and interact with the application

## Note:

If your **node** version is less than **v11**, no update is required.

If your **node** version is greater than or equal to **v12**, run '**npm install node-sass**' before running '**npm install**' command.

## In Class Programming (ICP):

In the above use case, implement update and delete functionality (user should able to update the book details and delete the book from the database)

**Note:** *Change the UI if you are going to use the given code*

## ICP Submission Guidelines

1. ICP submission is an individual contribution
2. Submit your source code and documentation to GitHub and represent the work through the wiki page accurately (submit your screenshots as well. The screenshot should have both the code and the output)
3. Comment your code appropriately
4. Video submission (3 to 5 min video showing the demo of the ICP, with brief voiceover on the code explanation)
5. Submission after the due date is considered as a late submission. (Check the 'Late Submission Policy on Assignments' in the syllabus)
6. Use the related Canvas survey to submit your ICP # and feedback

## ICP Rubric Details

You can find ICP Rubric Details in both the Syllabus and Canvas ICP assignment.

Criteria	Novice	Competent	Proficient
Wiki page (25)	Basic wiki page. (>=0 to <=5)	Wiki page with the required details. (>5 to <=15)	Wiki page with all details and making it easy to follow and understand. Visually looking good. (>15 to <=25)
Video (25)	Basic video. (>=0 to <=5)	Video with the required details. (>5 to <=15)	Video with all details and making it easy to follow and understand. Annotated with the subtitles. (>15 to <=25)
Completeness of given assignment (25)	It is partially solved. (>=0 to <=5)	Completely solved. (>5 to <=15)	It is solved efficiently. (>15 to <=25)
Code Quality (It is relative) (10)	Refer to the <a href="#">best coding practices</a> page. (>=0 to <=5)	Refer to the <a href="#">best coding practices</a> page. (>5 to <=8)	Refer to the <a href="#">best coding practices</a> page. (>8 to <=10)
Commenting the code (10)	Not useful comments. (>=0 to <=5)	Slightly appropriate comments. (>5 to <=8)	Appropriate comments. (>8 to <=10)
Time of submission	Submission after the due date. Check the 'Late Submission Policy on Assignments' section in the syllabus	Submission on the deadline. No score will deduct from the obtained score.	Submission before the deadline. No score will deduct from the obtained score.
Submission (including feedback) (5)	Submission with partial details. (>=0 to <=3)	Submission with the essential details. (>3 to <=4)	Submission with all the details. (>4 to <=5)
<b>Total</b>	<b>Minimum = 0</b>		<b>Maximum = 100</b>

**Note:** Cheating, plagiarism, disruptive behavior, and other forms of unacceptable conduct are subject to strong sanctions under university policy. See detailed description of university policy at the following URL: <https://catalog.umkc.edu/special-notices/academic-honesty/>