



TECNOLÓGICO DE MONTERREY
Campus Querétaro

PROFESORES ENCARGADOS:
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Construcción de software y toma de decisiones

Lab 22

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FECHA DE ENTREGA:
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Laboratorio 22 Subir y bajar archivos:

Para nuestro proyecto, ayudé en el pensamiento de cómo implementar la subida del archivo de tipo CSV.

```
// Regex to get the characters before a comma (ignores field commas)
const csvExtractor = /(\,|\r?\n|\r|^)(?:"([^\"]*(?:"\"")*)"|([^\,\,\r\n]*))/gi

/**
 * Pushes an element into the array if it is not present already
 * @param {Array} arr
 * @param {any} elem
 */
const pushUnique = (arr, elem) => {
  ... if(arr.indexOf(elem) === -1) {
    ... arr.push(elem);
    ... }
}

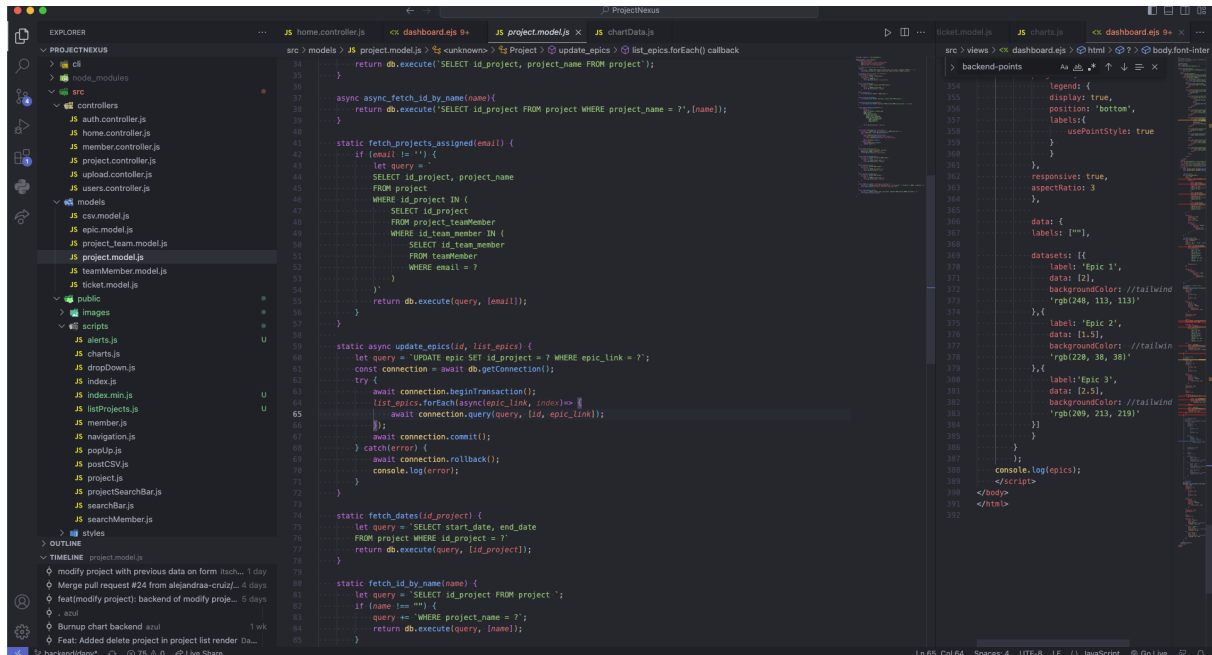
/**
 * Pushes a list of epic links into a given list of epics
 * @param {Epic[]} epics
 * @param {String[]} links
 */
const pushEpicsFromLinks = (epics, links) => {
  ... links.forEach(epic_link => {
    ... epics.push(new Epic({epic_link: epic_link}));
    ... });
}

/**
 * Converts a list of epic_link strings into Epic objects
 * @param {String[]} arr
 * @returns {Epic[]}
 */
const epicListFromArray = (arr) => {
  ... const epics = [];
  ... arr.forEach(elem => {
    ... epics.push(new Epic({epic_link: elem}));
    ... });
  ... return epics;
}

module.exports = class TicketDataset {
  ... /**
  ... *
  ... * @param {Ticket[]} tickets
  ... * @param {Epic[]} epics
  ... */
  ... constructor(tickets, epics) {
  ... ... this.tickets = tickets || [];
  ... ... this.epics = epics || [];
  ... }
}
```

Laboratorio 25

Para la elaboración de transacciones hice una función de transacción para poder modificar las epics cada vez que se requiera, esto en mi proyecto de Project Nexus.



```
src > models > project_model.js > % cunknow % % project_model.js > % update_epics % % list_epics.forEach() callback
31 return db.execute('SELECT id_project, project_name FROM project');
32 }
33
34 async async_fetch_id_by_name(name) {
35   return db.execute('SELECT id_project FROM project WHERE project_name = ?', [name]);
36 }
37
38 static fetch_projects_assigned(email) {
39   if (email != '') {
40     let query = '
41       SELECT id_project, project_name
42       FROM project
43       WHERE id_project IN (
44         SELECT id_project
45         FROM project_team_member
46         WHERE id_team_member IN (
47           SELECT id_team_member
48           FROM team_member
49           WHERE email = ?
50         )
51       )';
52     return db.execute(query, [email]);
53   }
54 }
55
56 static async update_epics(id, list_epics) {
57   let query = 'UPDATE epic SET id_project = ? WHERE epic_link = ?';
58   const connection = await db.getConnection();
59   try {
60     await connection.beginTransaction();
61     list_epics.forEach(async (epic_link, index) => {
62       await connection.query(query, [id, epic_link]);
63     });
64     await connection.commit();
65   } catch (error) {
66     await connection.rollback();
67     console.log(error);
68   }
69 }
70
71 static fetch_dates(id_project) {
72   let query = 'SELECT start_date, end_date
73   FROM project WHERE id_project = ?';
74   return db.execute(query, [id_project]);
75 }
76
77 static fetch_id_by_name(name) {
78   let query = 'SELECT id_project FROM project';
79   if (name != '') {
80     query = 'WHERE project_name = ?';
81     return db.execute(query, [name]);
82   }
83 }
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85 }
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```
src > views > dashboard.ejs > % cunknow % % project_model.js > % update_epics % % list_epics.forEach() callback
354 legend: {
355   display: true,
356   position: 'bottom',
357   labels: {
358     usePointStyle: true
359   }
360 },
361 responsive: true,
362 aspectRatio: 3
363 },
364 data: {
365   labels: [''],
366   datasets: [
367     {
368       label: 'Epic 1',
369       data: [2],
370       backgroundColor: //tailwind
371       'rgb(248, 113, 113)'
372     }, {
373       label: 'Epic 2',
374       data: [1, 5],
375       backgroundColor: //tailwind
376       'rgb(228, 38, 38)'
377     }, {
378       label: 'Epic 3',
379       data: [2, 5],
380       backgroundColor: //tailwind
381       'rgb(209, 213, 219)'
382     }
383 ]
384 }
385 }
386 console.log(epics);
387 </script>
388 </body>
389 </html>
390
```