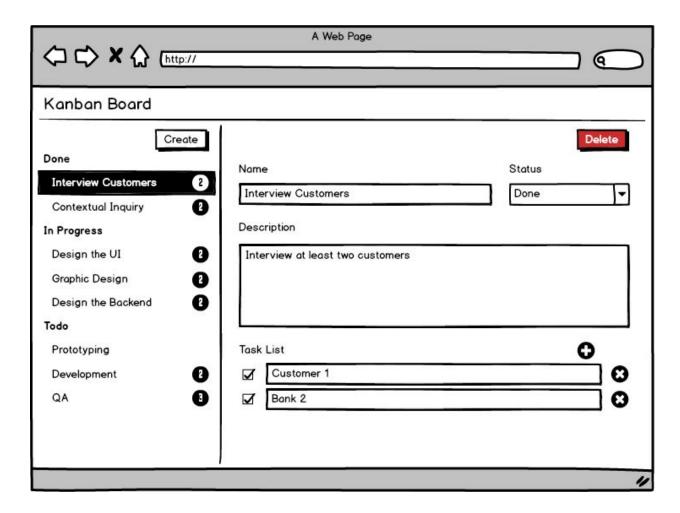
Kanban Board Application

Implement the Kanban Board Application. The backend is given, and the UI mockup is shown below.



In the package, you will find workspace.zip, which is a simple RESTful API implementation using Node.js, Express.js, and MongoDB.

First install Node.js and MongoDB. Then, unzip workspace.zip and use npm install to install the backend application. (node server.js)

kanban.routes.js under app/routes indicates the following available RESTful APIs (You can use Postman to manually test them.)

- GET /cards: lists all the kanban cards
- POST /cards: create a new kanban card

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- With raw JSON {"title": "...", "description": "...",
"status": "..."}
```

- GET /cards/:card id: get information of a specific kanban card, includes its task list
- PUT /cards/:card id: update information of a specific kanban card
 - With raw JSON {"title": "...", "description": "...",
 "status": "..."}
- DELETE /cards/:card id: delete a specific kanban card
- POST /cards/:card id/tasks: create a new task for a specific kanban card
 - With raw JSON {"taskname": "..."}
- PUT /cards/:card_id/tasks/:task_id: update the status of a task in a specific kanban card
 - With raw JSON {"taskstatus": true}
- DELETE /cards/:card_id/tasks/:task_id: delete a task in a specific kanban card

The package also includes a sample data set in the JSON format, kanban.json.

Please implement the ReactJS front end so that a user can

- List all kanban cards grouped by its status (todo, in-progress, or done)
- Create a new kanban card by providing the name. The default status is todo.
- Update an existing kanban card.
- Delete an existing kanban card.

All the changes in the detail view are saved automatically when

- the Name field is out of focus;
- the selected item in the Status drop down changes;
- the Description text area is out of focus;
- the checkbox of a task entry is clicked;
- a new task entry is added and the input field is out of focus; or
- a task entry is deleted.

Once the changes (the name and the number of tasks) in the detail view are saved, the queue view on the left-hand side will be automatically updated.