Reports for Backend Projects

The purpose of this projects is to develop a to do lists application by using Node.js/Express.js. The requirements are mentioned on assignment as per requests. The objective of this projects to develop REST API with CRUD operations and API documentation.  
  
**Technology Stack: -** Express.js, Node.js.

In requirements, for data storing in memory, I used ‘*express-session’* package. Where it can be store but it’s doesn’t fully save like cookie itself. It will destroy if the server is restarted or crash.

The projects itself is made MVC Architecture patterns expect ‘View’. For Data model, I decided to use Class based structure which helps to organize and manage code more effectively. And lastly, for each task’s creation, I decided ‘id’ to use a nano-UUID for generating unique identifiers.

**Data Model**: -

{  
 id: string,  
 title: string,  
 description: string  
}  
  
**API Endpoints-**   
 from assignment request, I used all endpoints.

1. `GET /tasks`: Retrieve a list of all tasks.
2. `GET /tasks/:id`: Retrieve a specific task by ID.
3. `POST /tasks`: Create a new task.
4. `PUT /tasks/:id`: Update an existing task by ID.
5. `DELETE /tasks/:id`: Delete a task by ID.

**API Documentation: -** I used third party libraries (Swagger) to help us achieve to make api documentation. By using swagger, I created one file called “swagger.json” where json file formatting based from swagger api structure. Then used to call method `swaggerUi.setup()` from index.js.   
  
To visit api documentation -   
 **http://localhost:3000/api-docs**