

# Share-IITK(Backend)

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## Team Members:

- Abhay Pratap Singh
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## Important Links:

- Share-IITK repo

## Timeline

### 1<sup>st</sup> week:

- Started learning scala from this book [Functional Programming in Scala](#)
- Jumped to this link [Twitter Scala School](#), as I found it more useful.
- Came across [Neophytes Guide to Scala](#), studied part - 8 from there, which was about concurrent side of scala.

### 2<sup>nd</sup> week:

- Learned about sbt build tool.
- Read about the features of REST API.
- Decided the endpoints for the API. There will be basically four endpoints:
  - `/api/resources/search(GET)`: It will return the whole table(in JSON) to be searched in the frontend.
  - `/api/resources/upload(POST)`: For uploading the respective file.
  - `/api/resources/(GET)`: For downloading the file, distinguished by parameter MD5. Also, it will increment the score of that file by 1.

- /api/courses/(GET): Return the list of courses.
- Learned about Actors in Akka and how they are used for asynchronous calls.

### **3<sup>rd</sup> week:**

- Followed some links to get an idea of akka http REST API, for example:
  - Reactive REST Services using Akka HTTP
  - Building a REST Service in Scala with Akka HTTP, Akka Streams and Reactive Mongo - DZone Java
  - How to build a REST API with Akka Http
- Wrote the code for handling HttpResponses using akka for Share IITK repo.