

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Computer Science and Engineering - NOC:Introduction to Modern Application Development

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Co-ordinating Institute - IIT - Madras

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction to the course
- Lecture 2 - Introduction to a web-app
- Lecture 3 - Building a web-app
- Lecture 4 - Networks
- Lecture 5 - Practical - Running your own web-server
- Lecture 6 - Protocols
- Lecture 7 - Practical - SSH + Network experiments
- Lecture 8 - Practical - Building a webapp with nodejs and using git. Introduction to reverse proxies.
- Lecture 9 - Practical - Introduction to server-side javascript and HTML/CSS
- Lecture 10 - Introduction to client-side Javascript
- Lecture 11 - Practical - APIs and mobile apps use web-servers
- Lecture 12 - Introduction to databases
- Lecture 13 - Data modelling and constraints
- Lecture 14 - Interacting with a DBMS
- Lecture 15 - Practical - Deeper exploration of a DBMS (column types and more)
- Lecture 16 - Introduction to SQL
- Lecture 17 - Understanding database performance
- Lecture 18 - Transactions and ACID properties
- Lecture 19 - Database security, backup and recovery
- Lecture 20 - Analytics and Views
- Lecture 21 - Scaling a database
- Lecture 22 - Connecting your webapp to your database and SQL Injection
- Lecture 23 - SQL and NoSQL systems
- Lecture 24 - Authentication with HTTP
- Lecture 25 - Understanding security, and some best practices for webapps
- Lecture 26 - Introduction to authentication, hashing, curl and sessions
- Lecture 27 - Introduction to mobile apps
- Lecture 28 - Introduction to Mobile Application Development Part 2
- Lecture 29 - Introduction to Android

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- Lecture 30 - Getting started with Android Application Development
- Lecture 31 - Building Custom UI using XML and Logs
- Lecture 32 - Building a Blog App
- Lecture 33 - Deploying an app to the Google Play Store
- Lecture 34 - Introduction to iOS
- Lecture 35 - The API Economy