DevOpsSchool
Lets Learn, Share & Practice DevOps

Day - 1	Day - 2
Session 1: Understanding the Block Drivers ○ Understanding a Generic Hard Disk ○ Request Queue Ecosystem ○ Kernel APIs & Data Structures ○ Creating a RAM Block Device ○ Partitioning a Block Device **Exercises** ○ Experiments with a RAM-based Block driver ○ Creating Partitions and formatting them **Session 2: File System Design & Implementation** ○ Hardware File System & Formatting ○ File System Design & Challenges ○ Virtual File System & its Role **Exercises** ○ Designing a custom File System ○ Application to Format the custom File System	**Session 3: Filesystem Implementation Continue** ○ Kernel File System ○ The 5 Operation Sets ○ Coding for the bunch of System Calls **Exercises** ○ Mounting the custom File System ○ Mounting the custom File System **Session 4: Filesystem in Action** ○ Modifications, Enhancements, Feature Additions **Exercises** ○ Experiments with fundamental File System operations triggered by cd, touch, mkdir, cp, rm, ○ Add the feature of (efficient) renaming of files