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