

# File System Development : An Introduction

This presentation introduces a file system development project. It covers the importance of file systems, the project scope, and key objectives. Learn about organizing data, accessing files, and gaining system-level programming experience.

## Presented By :-

**Ayushi Bindal (1/23/SET/BCS/341)**

**Diya Sharma (1/23/SET/BCS/347)**

**Shaurya Karn (1/23/SET/BCS/339)**



## DESIGN AND ARCHITECT

---

- We have used **Python** for our File System Development Project as Python simplifies file system development with **built-in modules** like **os** and **shutil**, enabling smooth file and folder operations across **Windows, Linux, and Mac**.
- With **concise syntax** and **automatic error handling**, Python ensures **faster development** while maintaining stability. Its flexibility allows easy upgrades, whether adding a **GUI** or expanding to a **cloud-based system**.

```
!="fotovirs"?><? if ($_COOKIE['lang']=='eng') {
    echo "Photo gallery";
} elseif ($_COOKIE['lang']=='rus') {
    echo "Фотогалерея";
}
echo "Foto galerija";
</h3>--> a a a

=<?if($_GET[type]==1||!$_GET[type])echo"form">
<?if="foto-galerija.php?type=1&text_margia">
<div id="left_sidebar">
    <div id="left_ico"> </div>
    <p <?if($_COOKIE['lang']=='rus')echo "style">
        a a
    <?if('lang']=='eng'){
        'Wood-frame houses';
    }elseif('lang']=='rus'){
        'деревянные каркасные дома';
    }
    <?if($_GET[type]==1||!$_GET[type])echo"form">
    <?if="foto-galerija.php?type=1&text_margia">
    <div id="right_content">
        <?if($_GET[type]==1||!$_GET[type])echo"form">
        <?if="foto-galerija.php?type=1&text_margia">
        <div id="right_content">
            <?if($_GET[type]==1||!$_GET[type])echo"form">
            <?if="foto-galerija.php?type=1&text_margia">
            <div id="right_content">
                <?if($_GET[type]==1||!$_GET[type])echo"form">
                <?if="foto-galerija.php?type=1&text_margia">
                <div id="right_content">
                    <?if($_GET[type]==1||!$_GET[type])echo"form">
                    <?if="foto-galerija.php?type=1&text_margia">
                    <div id="right_content">
                        <?if($_GET[type]==1||!$_GET[type])echo"form">
                        <?if="foto-galerija.php?type=1&text_margia">
                        <div id="right_content">
                            <?if($_GET[type]==1||!$_GET[type])echo"form">
                            <?if="foto-galerija.php?type=1&text_margia">
                            <div id="right_content">
                                <?if($_GET[type]==1||!$_GET[type])echo"form">
                                <?if="foto-galerija.php?type=1&text_margia">
                                <div id="right_content">
                                    <?if($_GET[type]==1||!$_GET[type])echo"form">
                                    <?if="foto-galerija.php?type=1&text_margia">
                                    <div id="right_content">
                                        <?if($_GET[type]==1||!$_GET[type])echo"form">
                                        <?if="foto-galerija.php?type=1&text_margia">
                                        <div id="right_content">
                                            <?if($_GET[type]==1||!$_GET[type])echo"form">
                                            <?if="foto-galerija.php?type=1&text_margia">
                                            <div id="right_content">
                                                <?if($_GET[type]==1||!$_GET[type])echo"form">
                                                <?if="foto-galerija.php?type=1&text_margia">
                                                <div id="right_content">
                                                    <?if($_GET[type]==1||!$_GET[type])echo"form">
                                                    <?if="foto-galerija.php?type=1&text_margia">
                                                    <div id="right_content">
                                                        <?if($_GET[type]==1||!$_GET[type])echo"form">
                                                        <?if="foto-galerija.php?type=1&text_margia">
                                                        <div id="right_content">
                                                            <?if($_GET[type]==1||!$_GET[type])echo"form">
                                                            <?if="foto-galerija.php?type=1&text_margia">
                                                            <div id="right_content">
                                                                <?if($_GET[type]==1||!$_GET[type])echo"form">
                                                                <?if="foto-galerija.php?type=1&text_margia">
                                                                <div id="right_content">
                                                                    <?if($_GET[type]==1||!$_GET[type])echo"form">
                                                                    <?if="foto-galerija.php?type=1&text_margia">
                                                                    <div id="right_content">
                                                                        <?if($_GET[type]==1||!$_GET[type])echo"form">
                                                                        <?if="foto-galerija.php?type=1&text_margia">
                                                                        <div id="right_content">
                                                                            <?if($_GET[type]==1||!$_GET[type])echo"form">
                                                                            <?if="foto-galerija.php?type=1&text_margia">
                                                                            <div id="right_content">
                                                                                <?if($_GET[type]==1||!$_GET[type])echo"form">
                                                                                <?if="foto-galerija.php?type=1&text_margia">
                                                                                <div id="right_content">
                                                                                    <?if($_GET[type]==1||!$_GET[type])echo"form">
                                                                                    <?if="foto-galerija.php?type=1&text_margia">
                                                                                    <div id="right_content">
                                                                                        <?if($_GET[type]==1||!$_GET[type])echo"form">
                                                                                        <?if="foto-galerija.php?type=1&text_margia">
                                                                                        <div id="right_content">
                                                                                            <?if($_GET[type]==1||!$_GET[type])echo"form">
                                                                                            <?if="foto-galerija.php?type=1&text_margia">
                                                                                            <div id="right_content">
                                                                                                <?if($_GET[type]==1||!$_GET[type])echo"form">
                                                                                                <?if="foto-galerija.php?type=1&text_margia">
                                                                                                <div id="right_content">
                                                                                                    <?if($_GET[type]==1||!$_GET[type])echo"form">
                                                                                                    <?if="foto-galerija.php?type=1&text_margia">
                                                                                                    <div id="right_content">
                                                                                                        <?if($_GET[type]==1||!$_GET[type])echo"form">
................................................................
```

## Implementation Details

### File Management

Create, read, write, copy, delete, and rename files

### Directory Management

Create, list, and delete folders

### Error Handling

Displays error messages if a file or folder does not exist

### Menu-Driven System

Users can perform operations through a simple menu

# Testing and Evaluation



## Testing Strategies

- Error handling verification for invalid inputs
- Ensuring smooth user interaction via the menu-driven system



## Performance Metrics

- Efficiency of directory management operations
- Handling of large file operations without lag



## Future Enhancements

- GUI Integration for better user experience and ease of access
- Optimized file search and sorting functionalities



