

```
#!/bin/bash
```

```
# Set up logging
```

```
LOG_FILE="docs_compilation.log"
```

```
OUTPUT_FILE="combined_docs.txt"
```

```
# Initialize log file
```

```
echo "$(date): Starting documentation compilation" > "$LOG_FILE"
```

```
# Create/clear output file
```

```
> "$OUTPUT_FILE"
```

```
# Function to determine file type and handle accordingly
```

```
process_file() {
```

```
    local file="$1"
```

```
    # Get file extension
```

```
    extension="${file##*.}"
```

```
    echo "$(date): Processing $file" >> "$LOG_FILE"
```

```
    case "$extension" in
```

```
        md|markdown)
```

```
            echo "# $(basename "$file")" >> "$OUTPUT_FILE"
```

```
            cat "$file" >> "$OUTPUT_FILE"
```

```
            echo -e "\n\n" >> "$OUTPUT_FILE"
```

```

;;

txt)

    echo "# $(basename "$file")" >> "$OUTPUT_FILE"

    cat "$file" >> "$OUTPUT_FILE"

    echo -e "\n\n" >> "$OUTPUT_FILE"

;;

*)

    echo "$(date): Skipping $file - unsupported format" >> "$LOG_FILE"

    return

;;

esac

echo "$(date): Successfully processed $file" >> "$LOG_FILE"

}

# Find and process all documentation files

find ../docs -type f \( -name "*.md" -o -name "*.txt" -o -name "*.markdown" \) | while read -r file; do

    process_file "$file"

done

# Log completion

echo "$(date): Documentation compilation complete" >> "$LOG_FILE"

echo "$(date): Output saved to $OUTPUT_FILE" >> "$LOG_FILE"

# Print summary

echo "Documentation compilation complete. Check $LOG_FILE for details."

```