

Work Nest Manual

Assignment 3

Mobile Application Development

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Introduction

Welcome to WorkNest, a powerful management app built for restaurant owners. Running a restaurant involves juggling staff schedules, daily tasks, and finances. WorkNest makes it easier by offering a user-friendly way to manage your crew, keep track of tasks, and monitor expenses all in one place. Whether you're organizing kitchen staff, handling restaurant operations, or tracking spending, WorkNest helps you stay on top of everything effortlessly.

Home Screen (WorkNest Dashboard)

Upon launching the app, you will see the main dashboard. It consists of:

- Top Navigation Bar – Displays the app title and provides easy access to different sections.
- Quick Stats Section – Which shows the number of crew members, Pending tasks and deadlines
- Recent Tasks List – Displays the most recently added tasks.
- Bottom Navigation Bar – Allows quick navigation to different sections of the app:
 - Crew Management: Allows to manage team members.
 - Task Management: Allows to add, edit, and track tasks.
 - Expense Management: Allows to record and track business expenses.


Crew Management

This screen allows you to:

- View a list of existing crew members.
- Add new crew members.
- Edit or delete crew members.
- Click on a crew member to view detailed information, including their LinkedIn profile (if provided).

How To Use

Add new crew members

1. Click the  **(Add Crew Member)** button on the top right.
2. Fill in the **name, role, and availability**.

3. Enter a LinkedIn profile URL (optional).
4. Tap **Add** to save the crew member.

Edit details of existing Crew Member

1. Tap **Edit** next to a crew member's name.
2. Modify the details and save the changes.

Delete an existing Crew Member

Tap **Delete** and confirm the removal.

View Crew Member Details

Tap on a crew member's card to see more details.

Click the LinkedIn URL to open their profile in a browser.

Task Management

This screen allows you to:

- Add, edit and delete tasks
- View added tasks and their status
- Assign task priorities (Low, Medium, High)

How to use

Add a new Task

1. Enter the task name and description.
2. Choose a priority level (Low, Medium, or High).
3. Tap **Save Task**.

Edit a Task

1. Tap **Edit** next to a task.
2. Modify the task details and save the changes

Delete a Task

Tap **Delete** and confirm the removal

Marking a Task as Completed

Check the box next to a task to mark it as complete

Expense Management


This screen allows you to

- Add new expenses
- View expense records
- Download and read expense files.

How to use

The expenses are listed in a table format with columns for Expense Name, Category, Amount, and Date.

Add an Expense

1. Tap the  (Add Expense) button.
2. Enter the expense name, category
3. Use the slider to enter the amount
4. Select a date using the date picker.
5. Tap Add to save the expense.

Download an Expense File

1. Tap **Download Expense File**.
2. The file will be saved in the **Downloads** folder.

Read an Expense File

1. Select the file from the **Downloads** folder.
2. The file content will be displayed.

Database Management

The WorkNest app uses an SQLite database to store and manage crew members, tasks, and expenses. The database is handled using a DatabaseManager class.

Database Tables

Crew Table:

- Stores crew member details, including name, role, availability, and LinkedIn URL.
- Provides CRUD operations (Create, Read, Update, Delete).

Tasks Table:

- Stores task names, descriptions, priority levels, and completion statuses.
- Allows modification and status updates.

Expenses Table:

- Stores expense names, categories, amounts, and dates.
- Supports expense tracking and file handling for expense reports.

Data Storage

- The app retrieves crew, task, and expense data using queries to SQLite.
- All modifications (additions, updates, deletions) are handled in the **DatabaseManager**.

Notifications & System Services

- The application displays local notifications and controls background tasks using Android Services.
- When tasks are saved or due dates draw near, notifications are sent out.

Receivers of Broadcasts

- A unique BroadcastReceiver built into WorkNest is capable of listening to system broadcasts:
- Changes in Internet Connectivity: Notifies the user when the internet is restored or lost.
- Battery Low Warning: If the battery is low, a toast message will appear.
- Device Boot Completed: Background tasks are automatically rescheduled.

Dialogs and Permissions

- Dialogs are used to notify users of significant actions or to confirm deletions.

- Permissions are requested at runtime (e.g., when you want to give permission to receive notifications).

Application Widget

- For user convenience, WorkNest comes with a basic home screen widget. It offers easy access to: See the task list.

End of Manual