 PITB	Document Title: Synchronization of Geo Tagging and Inspection Apps
Author: Ibrar Khan	Version: 1.0
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Synchronization of Inspection and Geo Tagging Applications



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Revision History

Name	Date	Reason for Changes	Version
Ibrar Khan	27-Dec-2022	Initial Draft	1.0

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1 Introduction

Chief Inspectorate of mines is using two mobile applications one for Geo Tagging and the other for performing Inspections. Currently, the inspection application is rendering Leases Data by importing excel sheet of leases from geotagging application.

2 Objectives

Objectives of the module comprise

1. Using the geotagging application, reflect newly geotagged mines in inspection application against leases.


3 Business Requirements

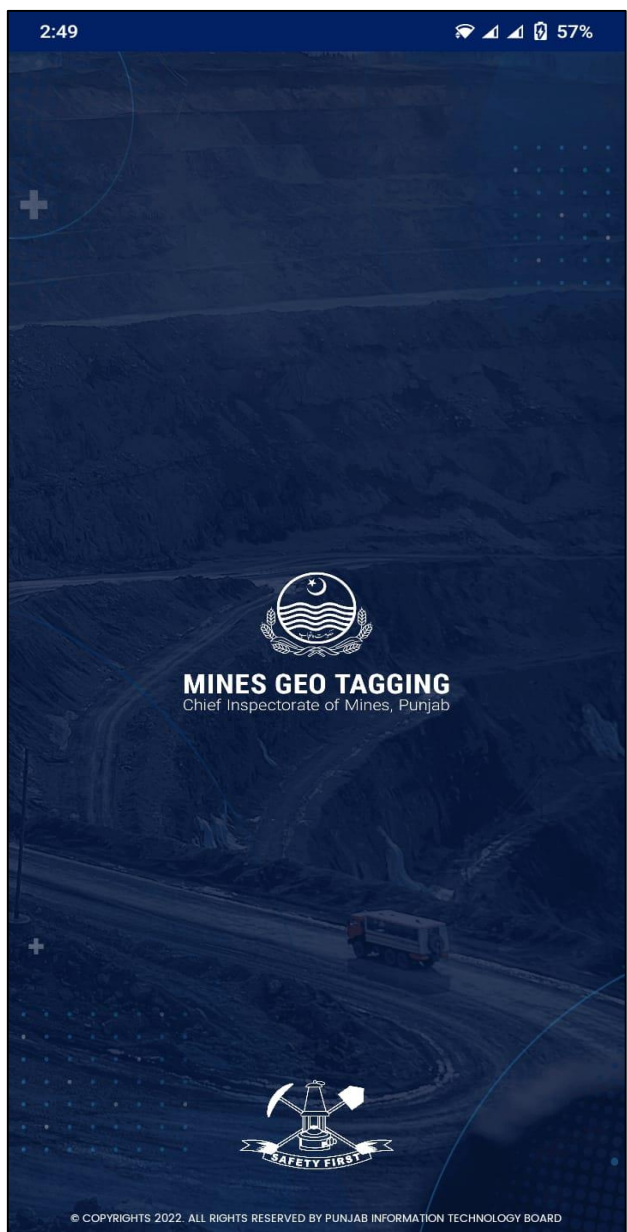
User-Friendly mobile applications are already developed by PITB for geotagging and inspections of mines against leases. Data of newly geotagged mines is not reflecting directly on the inspection application.

Here is a need to synchronize both applications. After synchronization data of the latest geotagged mine must reflect on the inspection application. So that inspectors could perform inspections on spot right after geotagging new mines.

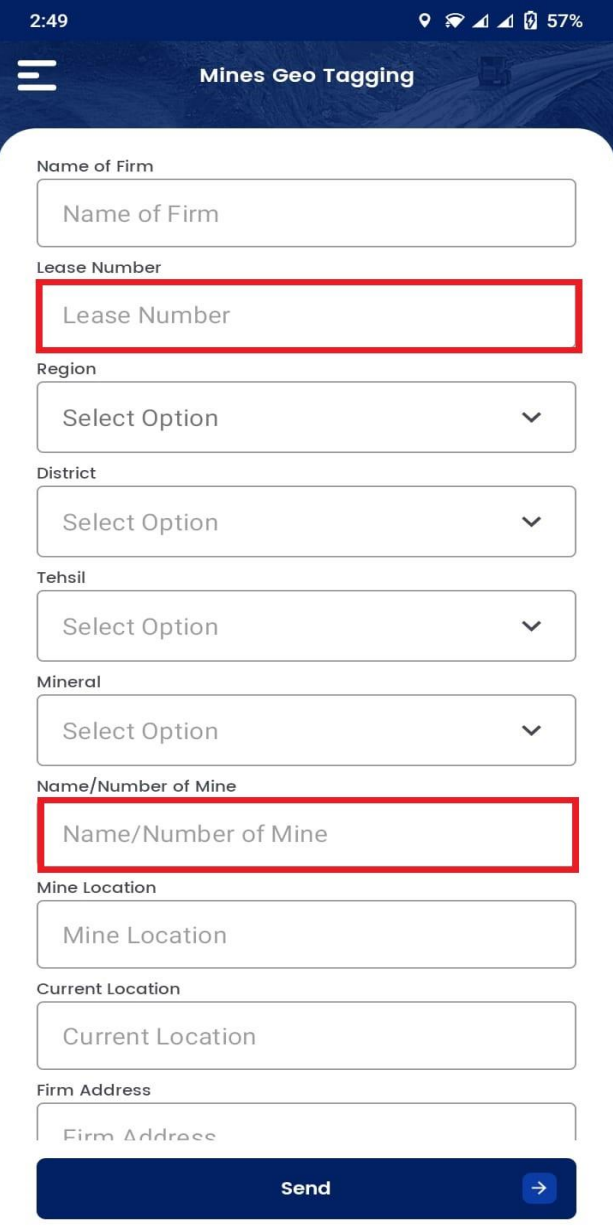
4 UI of Geotagging Application

Valid geotag users submit the details of mine needed to geotag. Highlighted Lease numbers and Mines must reflect in the inspection application upon submission.

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The home screen of the Mines Geo Tagging application features a dark blue background with a map of Punjab. At the top, the status bar shows the time as 2:49 and battery at 57%. The app title 'MINES GEO TAGGING' is prominently displayed in the center, with the subtitle 'Chief Inspectorate of Mines, Punjab' below it. A 'SAFETY FIRST' logo is visible at the bottom. The screen includes a map with a red location pin and a 'Send' button at the bottom right.



The form for the Mines Geo Tagging application is displayed on the right. It contains the following fields:

- Name of Firm:** A text input field.
- Lease Number:** A text input field, highlighted with a red border.
- Region:** A dropdown menu with 'Select Option' and a downward arrow.
- District:** A dropdown menu with 'Select Option' and a downward arrow.
- Tehsil:** A dropdown menu with 'Select Option' and a downward arrow.
- Mineral:** A dropdown menu with 'Select Option' and a downward arrow.
- Name/Number of Mine:** A text input field, highlighted with a red border.
- Mine Location:** A text input field.
- Current Location:** A text input field.
- Firm Address:** A text input field.
- Send:** A blue button with a white arrow icon.

Figure 1: UI of Geotagging Application

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5 UI of the Inspection Application

Valid Inspecting officers perform the following inspection after login.

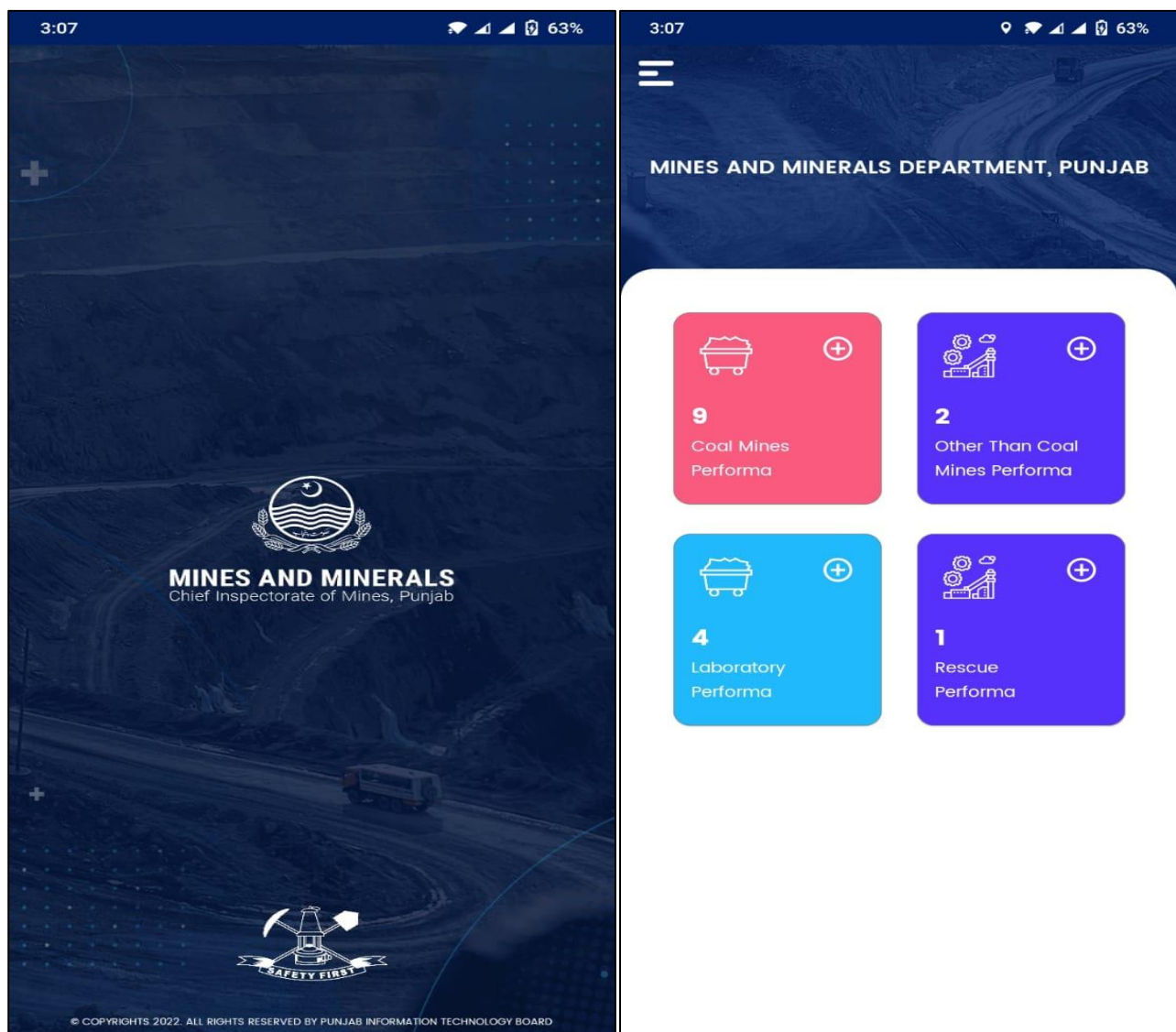



Figure 2: UI of Inspection Application

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Upon selection of inspection type Performa e.g. Coal, Other than coal, etc. newly geotag mines must populate in the dropdown of Lease numbers and mines.

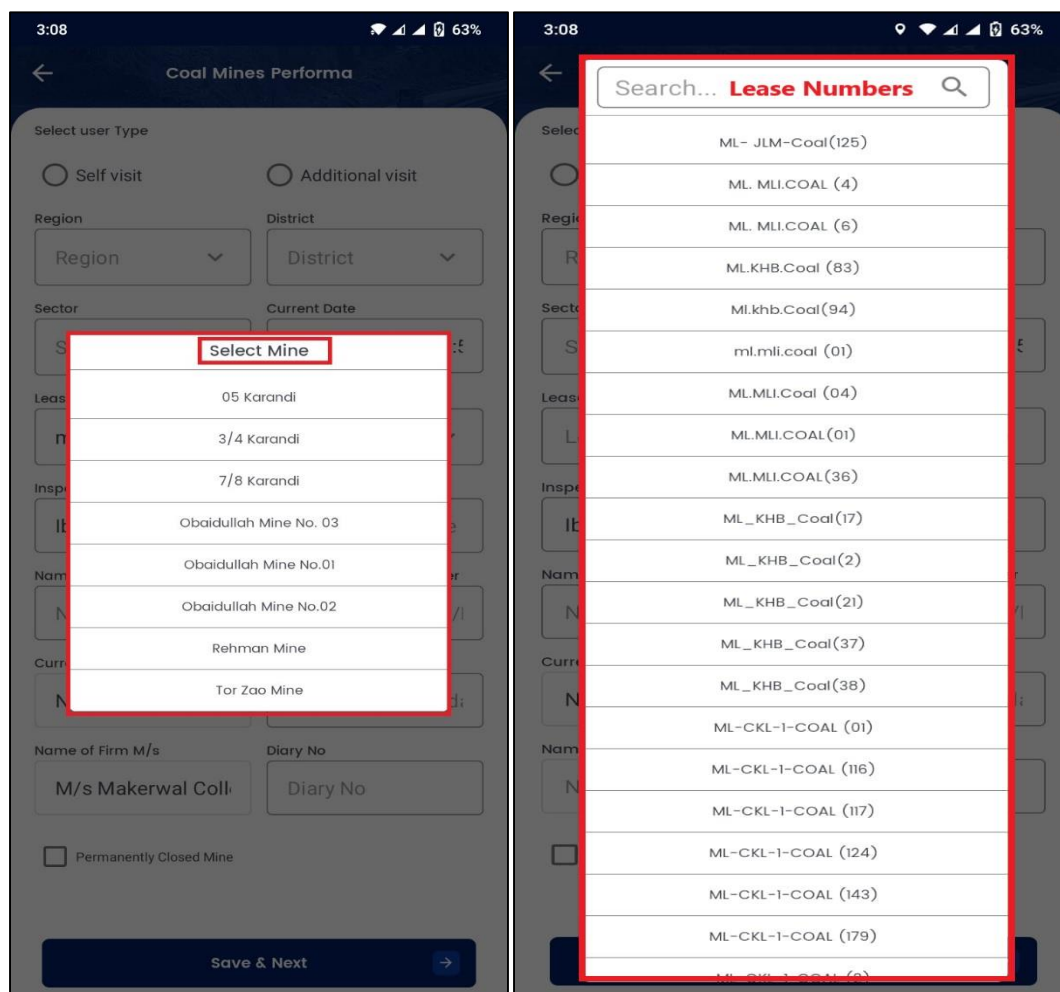


Figure 3: Lease and Mine Names in Inspection App