

PRESCRIPTIVE SOLAR ANALYTICS & ADVANCED WORKFORCE MANAGEMENT

D4.2

Mobile Work Force Management Tool

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Definition of Acronyms

Abbreviation

Uls	User Interfaces
MWM	Mobile Workforce Management
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Note: Mathematical symbols and terms are explained directly in the corresponding sections.





EXECUTIVE SUMMARY

Deliverable 4.2 titled "Mobile Work Force Management Tool" includes presentation of last phase of works/screens related to workforce management tool. In this chapter mainly mobile app user interfaces are presented. Transitions between each screen can be seen.





1 Interface Design Parameters

In this report user interfaces of MWM tool have been expressed. 5 different subheadings and draft interface discussed in deliverable 4.1 and last situation related to those definitions could be seen below.

1.1 User Interface (UI) of Pages

Until this period (First 18 months), work on the design of the web and mobile interfaces of the "Mobile Workforce Management" (MWFM) module continued. During the period, the development of the "Mobile Workforce Management" (MWFM) module was completed. Details regarding the design drafts of web and mobile interfaces were shared in the previous deliverable. As seen in Figure 1, while creating the work plan in the mobile application, the team, vehicle, field staff, etc. related to the relevant work. can be assigned.



Figure 1 Work Order Creation Interface

The field staff can view all kinds of details about the jobs assigned to him, including details such as the location of the job, its type, planned start and end date, priority status, as in Figure 2. In addition, he can see the locations of all the jobs assigned to him on the map. As can be seen in Figure 2, the job status has been categorized as new, ongoing, and completed and visualized in a way that can be easily understood.







Figure 2 Assigned Work Orders Interface

In addition, when the field worker enters the details of the work assigned to him, he can access the directions and details about the work to be done. As can be seen in Figure 3, on the detail page of the job assigned to the field worker, first of all, the start/end date, priority status of the job, location, etc. sees the summary page containing the general. On this page, when the job starts, it can update the status of the job as "Started". When the status of the job is updated in this way, it accesses the interface with the rules and directions that must be followed by the job to be done. This section is especially important for informing and reminding about occupational safety.

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Figure 3 Work Detail Interface

On the next page, the file/image related to the work done is uploaded. This page is important both for checking the work done and for using the audio-visual aid function. Finally, there is also a page where the person can





comment on the status of the job assigned to him. In Figure 4, the field worker can see the total number of jobs assigned to him and the jobs in different categories (completed, ongoing, new, etc.) on the "Summary" page.

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Figure 4 Work Order Summary Interface

In addition, the person can update their profile information and adjust from the settings on the homepage. With the gamification tool that has been developed, it is ensured that the person receives predetermined points from all the works completed in accordance with the Occupational Safety measures. A list is created with the ranking of the total points received by all field workers according to the work they have done during the month. On the main page seen in Figure 5, the person can see both the overall achievement list (best of the month) and their own scores. It also sees its performance compared to the previous month.



Figure 5 Field Worker Main Page





It is also planned to include the best employees of the month application and its interface can be seen in figure 6 below.



Figure 6 Best Workers Interface

The field employee can see both his own score and the scores of other employees in his own unit during that month. Gamification is designed to encourage the person to comply with the occupational safety instructions and to complete the work on time. As seen in Figure 7, Occupational Safety Score and Quick Response Score are calculated excluding completed works.



Figure 7 Reward Interface





In addition, an audio and visual aid tool has been added to the application, where the field worker can receive live support. With the "Support" tool on the main page seen in Figure 5, the field will be able to receive live support or initiate correspondence. The support interface is as shown in Figure 8. With this tool, audio and video support feature has also been added to the application.



Figure 8 Support Interface