

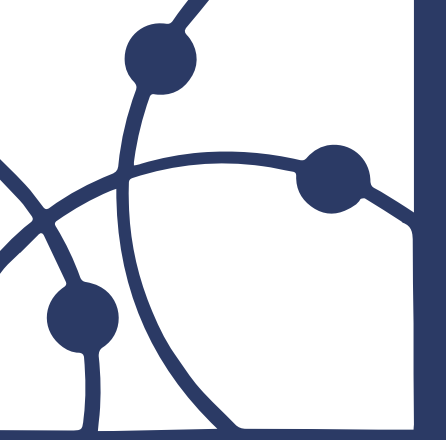


Hanan Alharbi, Emad Batwa, Mohammed Alghamdi
Dina Balgasim, Thekra Abuhaimed, Arwa Mohammed
Mohammed AL Zahrani, Salma Sheikh

Supervisor: Dr. Ahmed AL Hindi. Co-Supervisors: Lecturer Tariq Al Jabri, Dr. Reem Al Shaikh, Dr. Manal Alghamdi, Dr. Loai Alarabi



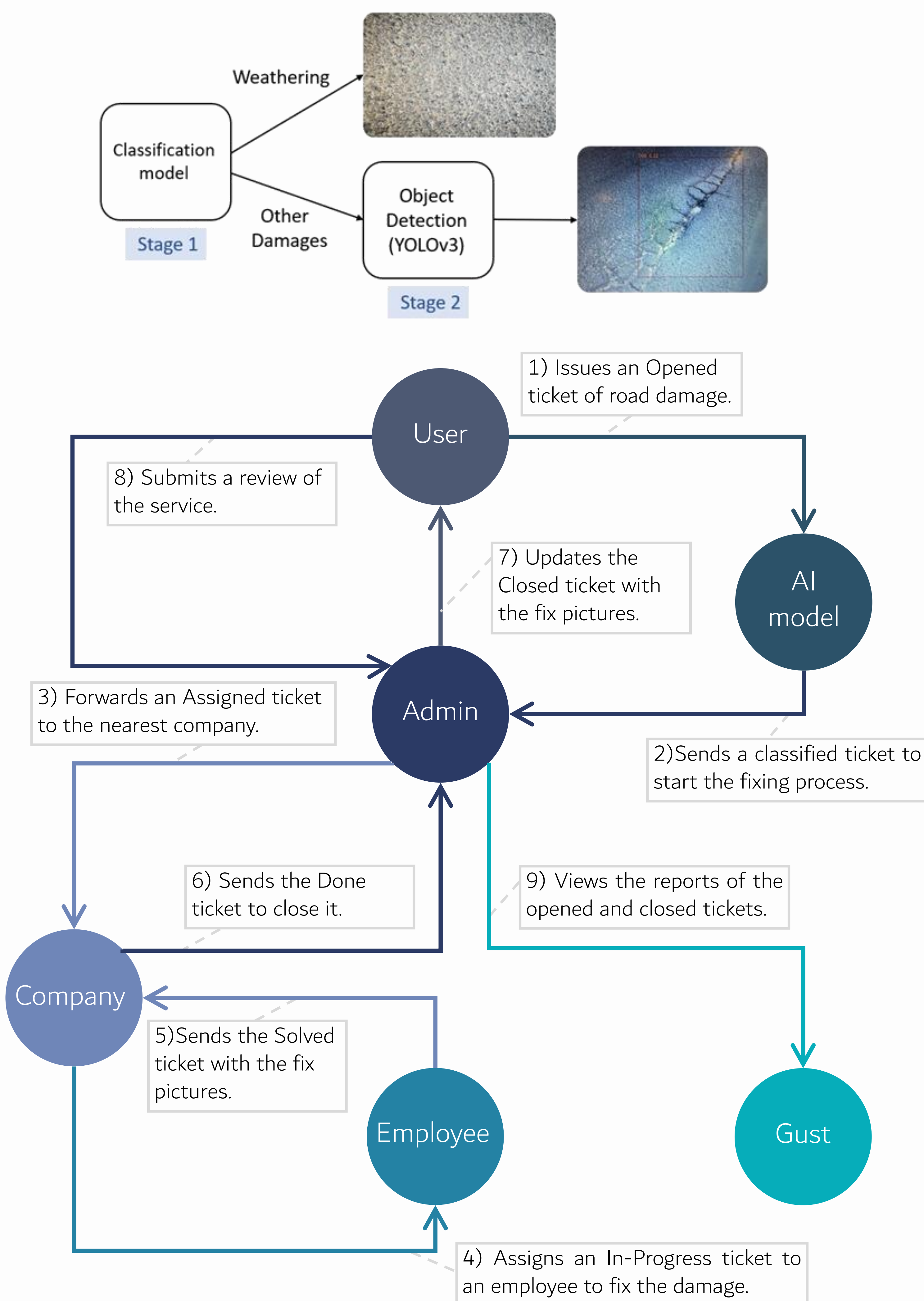
ROAD DAMAGE
MANAGEMENT
SALIK
SYSTEM



INTRODUCTION

Roads are significant parts of people's transportation; they are used as mediums by all vehicles. The surface of the road might deform and crack due to multiple reasons, and so it might affect the road performance and lead to safety hazards. The pits and cracks in the road can be problematic to vehicles and people, so the solution for this problem requires to deliver the road reports directly to the municipalities and that is where our system comes in and implements AI to improve the operation.

METHODOLOGY



OBJECTIVES

- Achieve the goals of Vision 2030 in developing our cities.
- Improve the damage management of the roads of Makkah.
- Make an Easy communication between citizens and the municipalities.
- Fast and time saving process.
- Involving the citizen cooperating in enhancing the roads.

RELATED WORK



No Classification
No AI Implementation

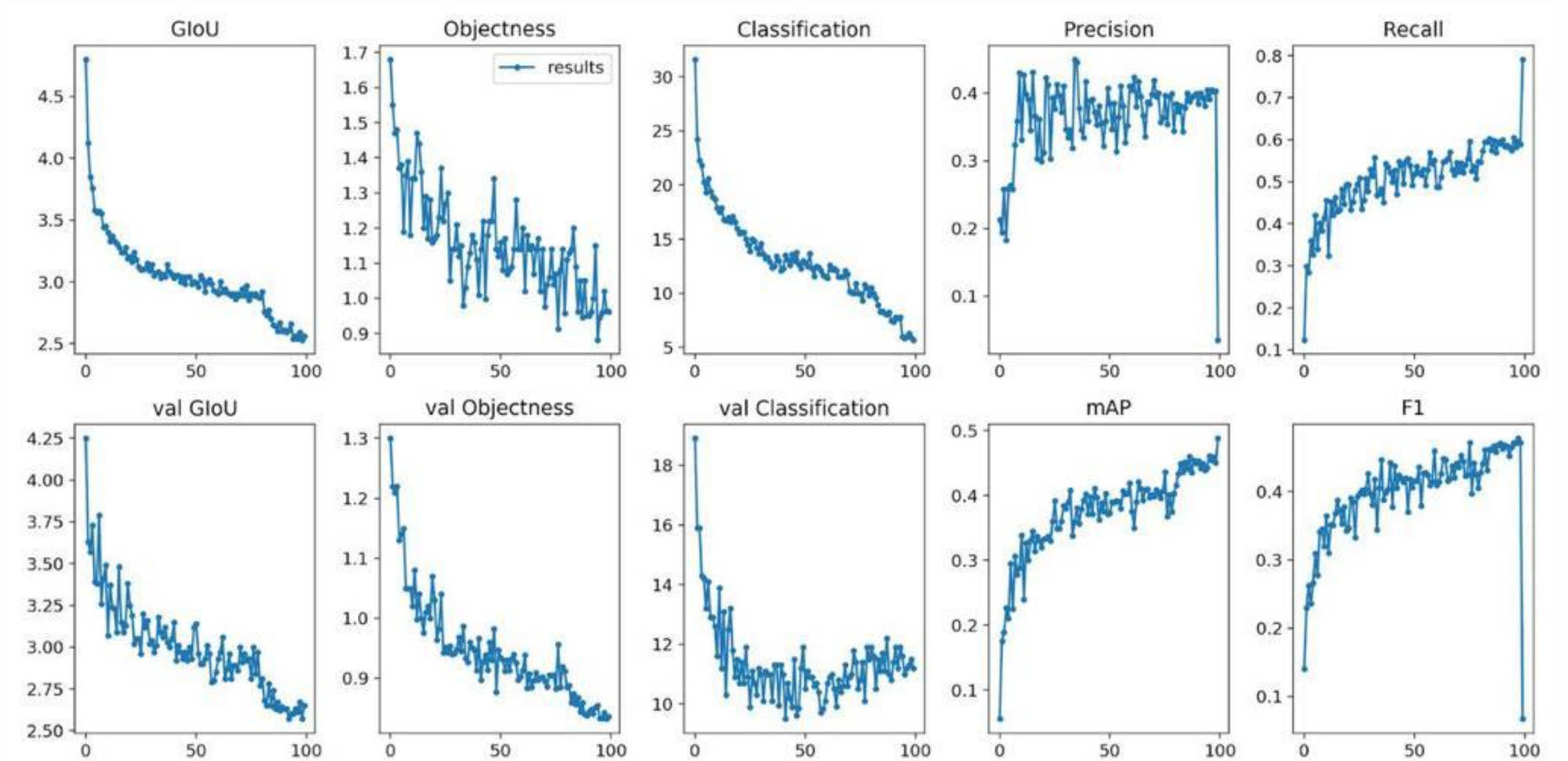


General Classification
No AI Implementation



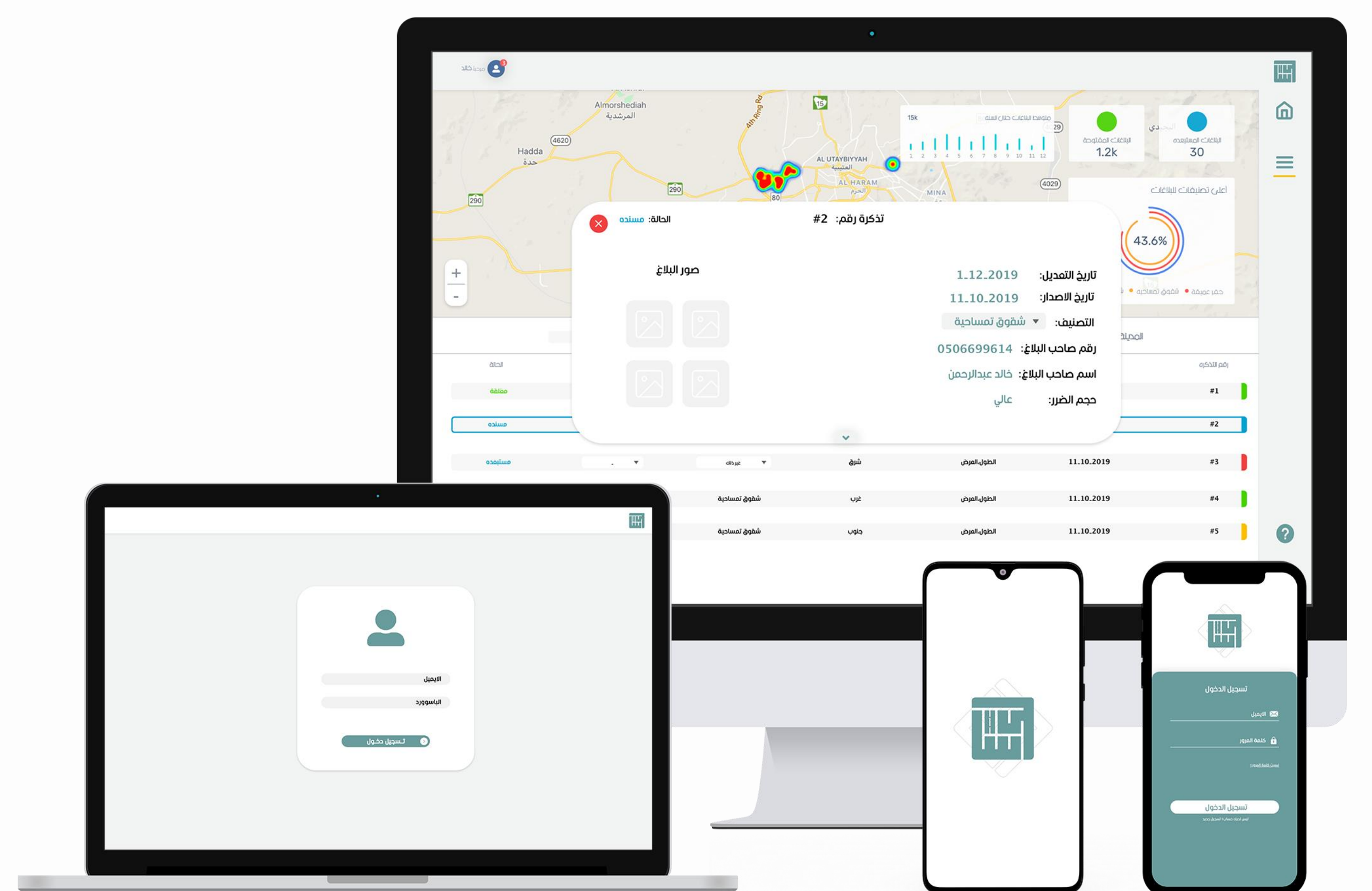
General Classification
No AI Implementation

RESULTS



```
test(loaders, model_load, criterion, use_cuda)
```

Test Loss: 0.202848
Test Accuracy: 95% (197/207)



TOOLS



CONCLUSION

This project involves developing a system that connects between the citizens, the municipalities and the road maintenance companies, allowing the users to report road problems via the mobile applications (iOS and Android). The municipalities and companies will manage the tickets and will produce a reachable public map site for viewing the reported road damages and fix the road problems using the web dashboards.

