



Cyprus
University of
Technology

Faculty of Engineering
and Technology

Bachelor's Thesis

Web Application Design for Community Environmental Incident Reporting

Christos Matthaïou

Limassol, May 2024

CYPRUS UNIVERSITY OF TECHNOLOGY
FACULTY OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING AND
INFORMATICS

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Supervisor

Faculty of Engineering and Technology, Michalis Michaelides, Assistant Professor

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Τεχνολογικό
Πανεπιστήμιο
Κύπρου

ΤΜΗΜΑ ΗΛΕΚΤΡΟΛΟΓΩΝ ΜΗΧΑΝΙΚΩΝ
ΚΑΙ ΤΕΧΝΟΛΟΓΙΩΝ ΠΛΗΡΟΦΟΡΙΚΗΣ

ΗΜΠ 412 -Διπλωματική Εργασία Ακαδημαϊκό έτος 2023-2024

Όνομα Φοιτητή: Χρίστος Ναιζαίν Βαθμός: 70

Τίτλος: Web application design for community
environmental incident reporting

Επιβλέπων Καθηγητής:

Νικόλαος Μυχαηλίδης
Όνομα


Υπογραφή

22/05/2024
Ημερ.

Εξεταστής :

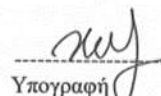
Απόστολος Αραβώτα
Όνομα


Υπογραφή

22/05/2024
Ημερ

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Χρίστος Λοΐζου
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Υπογραφή

22/05/2024
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The approval of the thesis by the Department of Electrical and Computer Engineering does not necessarily imply the approval by the Department of the views of the writer.

I extend my deepest gratitude to my parents and my entire family, whose unwavering support and encouragement have been my anchor throughout this four-year academic journey. Their boundless love, patience, and belief in my abilities have been the driving forces behind my endeavors. Whether it was offering words of encouragement during challenging times or celebrating the small victories along the way, their presence has been a constant source of strength and motivation. I am immensely thankful for their sacrifices and for providing me with the environment and the inspiration to pursue my passions and achieve my goals. This achievement is as much theirs as it is mine, and I am forever grateful for their support and endless faith in me.

ABSTRACT

This thesis focuses on the design and development of "EnvironEyes" a web-based application created to facilitate community-driven environmental incident reporting. Aimed at enhancing environmental awareness and improving community safety, the platform allows residents to report incidents efficiently using their internet-enabled devices. The application integrates features that support user-friendly navigation and real-time updates, fostering quick responses from local authorities. Through this initiative, the platform enhances proactive community engagement by making environmental reporting accessible to all, thus contributing to better environmental quality and safety. Analysis of user interactions and feedback highlights the platform's effectiveness in promoting environmental responsibility among residents. This research demonstrates the pivotal role of digital tools in community-based environmental management and provides a framework for future enhancements to increase user engagement and system functionality.

Keywords: Web Application Design, Community Engagement, Environmental Reporting, Incident Management, User Interaction Design.