

UNIVERSITY OF ZAGREB



FACULTY OF ELECTRICAL ENGINEERING AND COMPUTING

DEPARTMENT OF
ELECTRONIC SYSTEMS AND INFORMATION PROCESSING



LABORATORY FOR SYSTEMS AND SIGNALS



A student project within the course

“SOFTWARE DESIGN FOR MEASUREMENT AND PROCESS
SYSTEMS”

Telecontrol of a Mindstorms® NXT Robot

User documentation

Kristina Bashota
Tibor Čordaš
Dalibor Jelača
Iva Jelenčić
Vedran Koruga
Damir Kušević

Predrag Pale
mentor

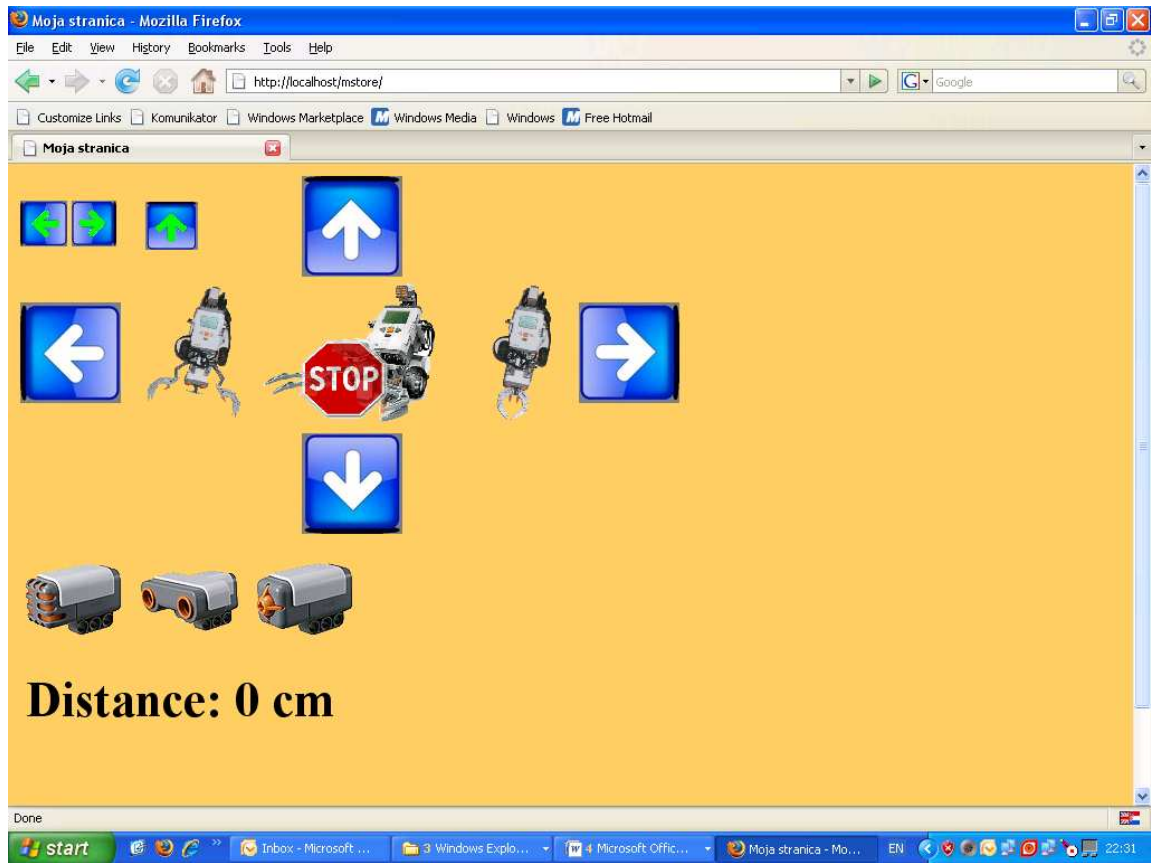
Zagreb, February 6, 2008.

Description

The *Mindstorm*® NXT is a functional robot which is controlled through a web interface. The website used is simple, contains all elements for managing the robot and displays the data received from its sensors.

The picture of the robot is surrounded by arrows. By pressing one of the arrows the robot starts moving in that direction. Opening and closing the robot's claws is enabled by pressing the appropriate icon.

At the bottom of the interface there are three icons which represent the three sensors used in this project. The sensors consist of an ultrasonic sensor which measures the distance from a nearest obstacle, a touch sensor for detecting low obstacles and a sound sensor which also creates a sound signal. Data received from the sensors is displayed below the matching icon.



An image of the web interface.