





CampusTalk

HORIEB MESFUN | NATNAEL HABTEMICAEL | SIEM ZERESENAY

SUPERVISOR NAME: DR. FATNA BELQASMI

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College of Technological Innovation
SENIOR PROJECT EXHIBITION DAY
SPED@CTI



OUR TEAM

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NATNAEL HABTEMICAEL



HORIEB MESFUN



SIEM ZERESENAY





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- **MOTIVATION**
- PROBLEM STATEMENT
- **OBJECTIVES**
- PROPOSED APPROACH
- CHALLENGES AND LESSONS LEARNED
- **DEMONSTRATION**
- **CONCLUSION**

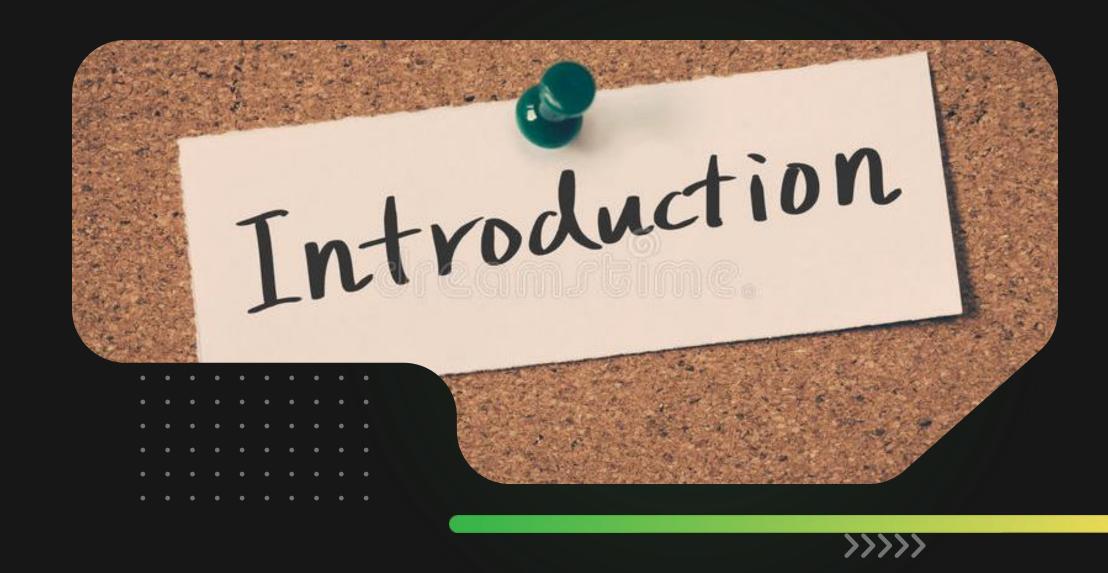




VOIP

ASTERISK

SIP/RTP

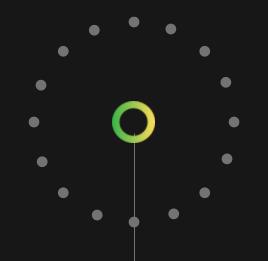




PROBLEMS

REGULATED

THERE IS A REGULATION OF VOIP SERVICES WITHIN UAE



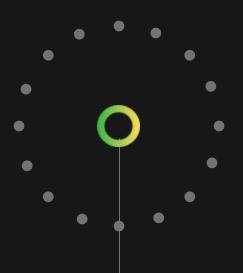
LIMITED

TRADITIONAL PHONE SYSTEMS HAVE
LIMITED FEATURES COMPARED TO VOIP
AND LIMITS COMMUNICATION
FEATURES

PROBLEMS

COST

TRADITIONAL PHONE SYSTEMS OFTEN
INVOLVE HIGHER COSTS, ESPECIALLY FOR
LONG-DISTANCE OR INTERNATIONAL
CALLS.



MOBILITY

INABILITY TO ACCESS AND STAY
CONNECTED TO PHONE SYSTEMS WHEN
STEPPING AWAY FROM THE
DESK/OFFICE
LEADING TO MISSED CALLS, DELAYED
RESPONSES, AND LIMITED.

+ MOTIVATION

COST EFFECTIVENESS





WIDE RANGE OF FEATURES AND FUNCTIONALITY

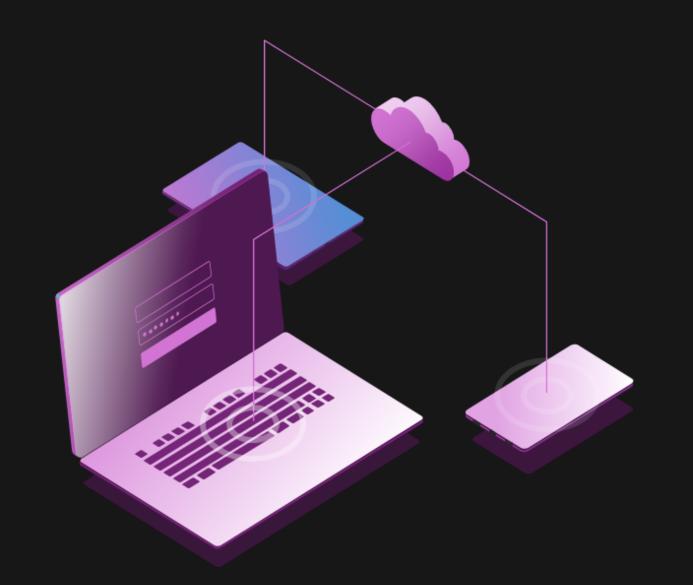
RESTRICTION OF VOIP SERVICES IN THE UAE



Project Objectives















Cost-effectiveness

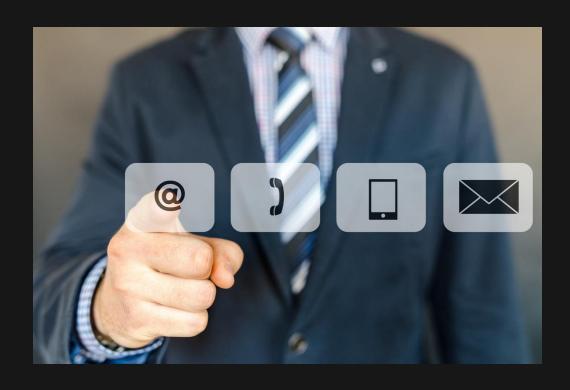


Open-source software

VOIP PLATFORM

CAMPUSTALK

- FREE AND OPEN-SOURCE FRAMEWORK, ASTERISK
 - LINUX SERVER
 - ROBUST AND CUSTOMIZABLE





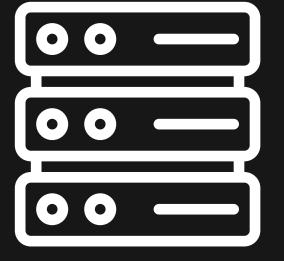


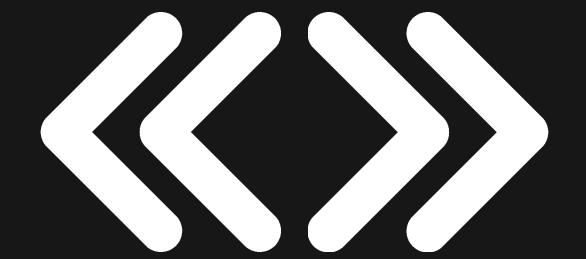
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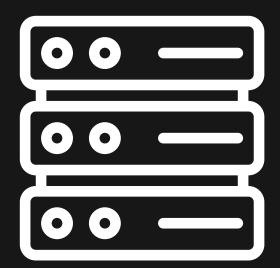
PROPOSED APPROACH

ABU DHABI







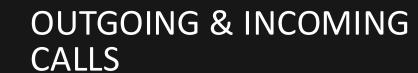


ASTERISK PEER SERVERS

APPLICATIONS



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VOICE MAIL





123-456-7890

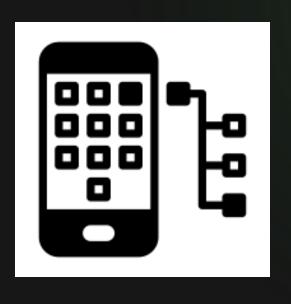


SOMEONE@EXAMPLE.COM

APPLICATIONS







INTERACTIVE VOICE RESPONSE





JOIN WITH 111



PRESS 1 TO TALK TO...

OTHER FEATURES INCLUDE

CALL TRANSFER

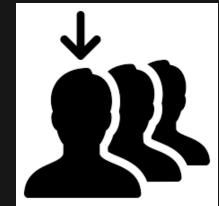


CALL QUEUING





CALL FORWARDING



TIME CHECK







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SECURITY FEATURES

SSL FOR TLS





MD5





SRTP





IMPLEMENTING SECURITY FEATURES



SEARCHING AND DOWNLOADING IMPORTANT PACKAGES AND LIBRARIES

AUTOMATING AND MODULARIZING THE CONFIGURATION SYNTAX OF THE ASTERISK SOFTWARE







VOIP PLAT FORM USING ASTERISK



ENHANCED SECURITY

INTEGRATION WITH EMERGING TECHNOLOGIES

CLOUD AND VIRTUALIZATION SUPPORT

INTEGRATION WITH UNIFIED COMMUNICATIONS







Thank you!

Any Quesitons