



# ICANN GSE AND UASG AMBASSADOR PROGRAM 2018

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**Duration:** 20 Min

DNS  
Entrepre-  
neurship  
Center





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- ❖ UA and Egyptian Government
  - ❑ Systems Inventory
  - ❑ Workshops & Awareness Sessions
  - ❑ Engaging with the government
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    - ✓ What's worked and What Hasn't





# CONTENTS<sub>2</sub>

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  - ✓ Sessions Contents
  - ✓ Workshop Contents
- ❖ Conclusion
- ❖ Appreciation
- ❖ Q & A





# UA AND EGYPTIAN GOVERNMENT

- ❖ Get head of IT contacts for most of the Egyptian ministries
  - ❑ Prioritize how we should proceed
- ❖ Get the head of IT contacts of ministry of communication affiliated organizations like:
  - ❑ Telecom regulatory of Egypt
  - ❑ Information technology institute “ITI”
  - ❑ Egyptian universities network



# SYSTEMS INVENTORY<sub>1</sub>

- ❖ System inventory sheet circulated to different entities to get all application which supposed to be UA ready

Software							
Name	Version	Vendor	Developed In-House Softwares !!	Software Language Used	Open Source !!	Related to Domain Names or Emails	Short Discription
CoCCA Registry System	8.0.2	CoCCA NZ	<input type="checkbox"/>	Java , Servlets , JSP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CoCCA Registry System for .Masr IDN TLD
			<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	

- ❖ Response already received from 4 governmental organizations
- ❖ Sheet will be more circulated to get more responses from different governmental entities



# SYSTEMS INVENTORY<sub>2</sub>

- ❖ Ministry of communication has more than 100 applications.
- ❖ 5 Applications are our target to be UA ready

No	Software							Short Discription
	Name	Version	Vendor	Developed In-House Softwares !!	Software Language Used	Open Source !!	Related to Domain Names or Emails	
Ex	CoCCA Registry System	8.0.2	CoCCA NZ	<input type="checkbox"/>	Java , Servlets , JSP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CoCCA Registry System for .Masr IDN TLD
1	Microsoft exchange 2013	15	Microsoft	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	mail server
2	Microsoft exchange 2010	14.3	Microsoft	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	mail server
3	Attendance System Release 2.1	2.1	إدارة تشغيل نظم المعلومات - قطاع الاتصالات والبنية الاساسية	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	attendance system help you keep track of your employees' hours, schedules and even time off requests.
4	بوابة خدماتي	2	إدارة تشغيل نظم المعلومات - قطاع الاتصالات والمساعدات الفنية	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Employees care, medical services ,Book a meeting room,leisure trips ,,,,etc





# WORKSHOPS & AWARENESS SESSIONS

- ❖ UA Awareness session at the telecom regulatory of Egypt “NTRA”, our target audience were:
  - ❑ Software Engineers
  - ❑ IT Managers
- ❖ Awareness session at the ministry of communication and information technology “MCIT”, with **live demo of UA ready application**, our target audience were:
  - ❑ Software Developers
  - ❑ IT Managers
  - ❑ University students “Computer Science”



# WORKSHOPS & AWARENESS SESSIONS

- ❖ 3 Days workshop at the telecom regulator, our target audience were:
  - ❑ MCIT Software developers
  - ❑ Computer science students
- ❖ Awareness sessions & EAI workshop at the meeting of TF-AIDN
- ❖ Awareness session at the Telecom Regulator “NTRA”, our target audience were:
  - ❑ Software developers





# WORKSHOPS & AWARENESS SESSIONS

## Future sessions:

- ❖ Share the concept of UA in the session of connect the un-connecting at the African IGF “4-6 Nov 2018”
- ❖ Egyptian governorates IT software developers awareness sessions
  - ❑ System engineers
  - ❑ IT Managers
- ❖ Information Technology Institute “5 Days workshop” **soon**
  - ❑ IT graduates Software developers
- ❖ Pakistani “Pakistan” IT software developers awareness sessions
  - ❑ System engineers
  - ❑ IT Managers



# ENGAGING WITH THE GOVERNMENT

❖ What has been tried:

- ❑ Give them a bigger understanding of Universal Acceptance concept
- ❑ Get all applications that required to be UA tested
- ❑ Modify the existed application to be UA ready
- ❑ New developed applications to be UA ready
- ❑ A trial to develop an API who could handle the UA readiness in applications
- ❑ How we could make the ministry mail server to support EAI



# ENGAGING WITH THE GOVERNMENT

## ❖ What's worked from the engagement

- ❑ The concept of UA already understood
- ❑ New developed applications to be UA ready “In House”
- ❑ Develop an in house API who could handle the UA readiness in applications



# ENGAGING WITH THE GOVERNMENT

- ❖ What's n't worked from the engagement
  - ❑ Modify the existed applications to be UA ready



Arab Republic of Egypt  
Ministry of Communications  
and Information Technology  
[www.mcit.gov.eg](http://www.mcit.gov.eg)



## WORKSHOPS AND SESSIONS



# WORKSHOPS AND SESSIONS

## ❖ Pre-Quests

- ❑ Identify the target audiences
- ❑ Identify Audiences experiences levels and backgrounds
- ❑ Identify where to start from to keep all titles smooth
- ❑ Could they have a live demo that may helps to make the concept of UA Readiness clear !!

## ❖ After-Quests

- ❑ Is the idea of UA clear !!
- ❑ Follow up





# WORKSHOPS AND SESSIONS

## ❖ Sessions

- ❑ IT Managers & Software Engineers “1 Hour”
- ❑ Software Developers “2.5 Hours”
- ❑ University Students “2.5 Hours”

## ❖ Workshops

- ❑ 3 Days Workshop
- ❑ 5 Days Workshop





# SESSIONS CONTENTS

- ☐ IT Managers
- ☐ Systems Engineers





# SESSIONS CONTENTS

❖ There are some general contents like:

- ❑ Warm up exercises
- ❑ Some statistics
- ❑ Why IDN's !!
- ❑ Review some terms
- ❑ User perception
- ❑ Current systems
- ❑ Documents should be read

❖ Software developers and university students may not have an idea about:

- ❑ Domain name system "DNS"
- ❑ Top level domains "Types, ASCII names, IDN names, ...etc."
- ❑ Live demo application



# SESSIONS CONTENTS

- ☐ Software Developers
- ☐ Universities Students





# SESSIONS CONTENTS

❖ Sessions contents for developers and universities students contains :

- ❑ Same contents as for IT managers
- ❑ Review some basics like DNS, \*TLDs, ...etc.
- ❑ Email systems components
- ❑ Live demo will be better



# SESSIONS CONTENTS

- ❖ Session for developers and university students : UA Readiness live demo application

The screenshot shows the pgAdmin III interface. On the left, the 'Object browser' tree displays the hierarchy: Servers (1) > PostgreSQL 8.4 (localhost:5432) > Databases (2) > UASG-DB. Under UASG-DB, there are Catalogs (2), Schemas (1) (public), Domains (0), FTS Configurations, FTS Dictionaries (0), FTS Parsers (0), FTS Templates (0), Functions (0), Sequences (1), Tables (1), UASG-User-Def, Trigger Functions (0), and Views (0). On the right, the 'Properties' tab is active, showing the following properties and values:

Property	Value
Name	UASG-DB
OID	16395
Owner	postgres
ACL	
Tablespace	pg_default
Default tablespace	pg_default
Encoding	UTF8
Collation	English_United States.1252
Character type	English_United States.1252
Default schema	public
Allow connections?	Yes
Connected?	Yes
Connection limit	-1
System database?	No
Comment	

Database UTF-8 Support





# SESSIONS CONTENTS

- ❖ Session for developers and university students : UA Readiness live demo application

Edit Data - PostgreSQL 8.4 (localhost:5432) - UASG-DB - UASG-User-Details

File Edit View Tools Help

No limit

	domainName character(64)	emailAddress character(256)	ID [PK] integer
1	ntra.gov.eg	atharwat@tra.gov.eg	37
2	تقرا.مصر	atharwat@tra.gov.eg	38
3	وزارة-الاتصالات.مصر	البريد@وزارة-الاتصالات.مصر	39
4	تقرا.مصر	البريد@وزارة-الاتصالات.مصر	40
5	baher.icann	baher@icann.org	41
6	بشار.مصر	بشار@بشار.مصر	42
7	سجل.مصر	محمد@سجل.مصر	43
8	tra.gov.eg	محمد@سجل.مصر	44
9	hadia.com	hadia@tra.gov.eg	45
10	هادية.امارات	hadia@tra.gov.eg	46

## UA Sample Form



Enter your domain name and email address to be evaluated:

اسم النطاق ( Domain Name ) .....

البريد الالكتروني ( Email Address ) .....

Save & Validate

## UA Sample Form



Enter your domain name and email address to be evaluated:

اسم النطاق ( Domain Name ) .....

البريد الالكتروني ( Email Address ) .....

Save & Validate

...Or Take A Look Here:



Search Page



Process Page



Validate & Store

ID	Domain Name	Email Address
41	baher.icann	baher@icann.org
45	hadia.com	hadia@tra.gov.eg
37	ntra.gov.eg	atharwat@tra.gov.eg
44	tra.gov.eg	محمد@سجل.مصر
42	بشار.مصر	بشار@بشار.مصر
43	سجل.مصر	محمد@سجل.مصر
38	نكرا.مصر	atharwat@tra.gov.eg
40	نكرا.مصر	البريد@وزارة-الاتصالات.مصر
46	هادية.امارات	hadia@tra.gov.eg
39	وزارة-الاتصالات.مصر	البريد@وزارة-الاتصالات.مصر

```

public static boolean isValidTLD(String tld) throws MalformedURLException, IOException {
    File file = new File("C:\\\\root.zone");
    URL oracle = new URL("http://www.internic.net/domain/root.zone");
    BufferedReader in = new BufferedReader(new FileReader(file));
    //BufferedReader in = new BufferedReader(
    //    new InputStreamReader(oracle.openStream()));
    boolean exists = false;
    tld = StringAccept.getACELabel(tld);
    String inputLine;
    while ((inputLine = in.readLine()) != null) {
        System.out.println(inputLine);
        if (inputLine.contains(tld)) {
            exists = true;
        }
    }

    in.close();

    return exists;
}

```

```

public static String escapeOpenDot(String domainName) {
    String domainNameWithDot = "";
    String textWithoutSpace = domainName.trim().replaceAll(" ", "");
    for (int i = 0; i < textWithoutSpace.length(); i++) {
        int c = textWithoutSpace.codePointAt(i);

        if (c == 0x3002) {
            domainNameWithDot = domainName.replace("°", ".");
        } else {
            domainNameWithDot = domainName;
        }
    }
}

```

```

public static boolean validateArabicLabelUnicode(String text) {
    String textWithoutSpace = text.trim().replaceAll(" ", ""); //to ignore whitespace
    for (int i = 0; i < textWithoutSpace.length(); i) {
        int c = textWithoutSpace.codePointAt(i);
        //range of arabic chars/symbols is from 0x0600 to 0x06ff
        //the arabic letter 'y' is special case having the range from 0xFE70 to 0xFEFF
        if (c >= 0x0621 && c <= 0x064A || (c >= 0x0660 && c <= 0x0669) || (c >= 0x0030 && c <= 0x0039))
            i += Character.charCount(c);
        else {
            return false;
        }
    }
    return true;
}

```



# WORKSHOP CONTENTS

❖ There are 2 types of workshop

- ❑ Normal 3 Days
- ❑ Extensive 5 Days

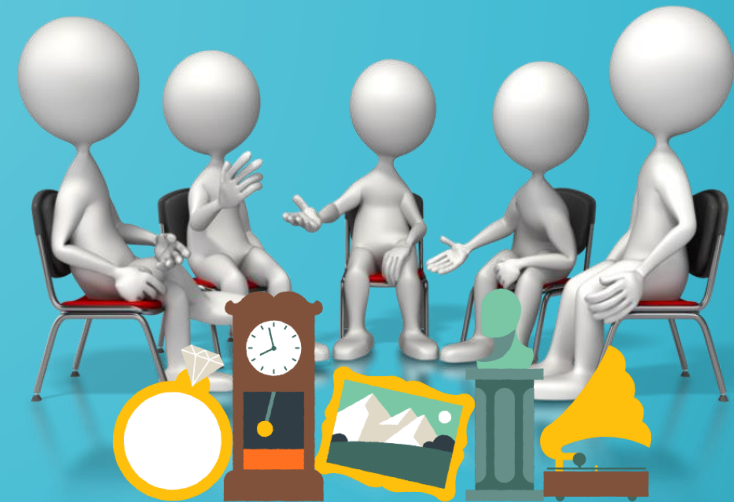
The extensive 5 days workshop have more technical details more than the 3 days Workshop.





# 3 DAYS WORKSHOP

- ❑ Ministry Software Developers
- ❑ Universities Students





# WORKSHOP CONTENTS

- ❖ More time to have more details about Internationalized Domain Names “IDN” and Email Address Internationalization
  - ❑ Some statistics
    - Internet population lives in non-latin language speaking countries
    - Top ten languages in the internet
    - Internet user growth
  - ❑ Why EAI & User expectations
  - ❑ Exercise about IDNs
  - ❑ Hands on about EAI



# WORKSHOP CONTENTS

## ❖ Warm up exercises

- ❑ Warm up exercises that open the floor for the target topic email systems.

- ✓ Email Address Internationalization “EAI”
- ✓ EAI user expectations

## ❖ Review the main parts of the email system to get which components should be adapted to handle EAI addresses correctly

## ❖ Some statistics about Email system usage world wide to turn their attention why Email and why EAI



# 5 DAYS WORKSHOP

❑ Experienced software developers





# WORKSHOP CONTENTS

❖ Same contents as the 3 days workshop in addition to more details like :

- ❑ Give them a deep look at the report of use cases for UA readiness evaluation “UASG004”
- ❑ How to evaluate websites for acceptance of variety of email addresses “UASG017”
- ❑ Universal acceptance in action “UASG007”
- ❑ Look at how to review the programming language and framework to be complaint with Universal Acceptance “UASG018”



# WORKSHOP CONTENTS

- ❑ How to get systems to be UA ready “UASG015”
- ❑ Projects will be selected depends on the audience activities





# CONCLUSION

- ❖ Believe it, achieve it
- ❖ May be the idea of UA in my country is not totally accepted, but few years the idea will be there
- ❖ Follow up is more important than the awareness sessions it selves
- ❖ Feel your customers and have a look for your business future



# APPRECIATION







Thank You