WeGO eGovFrame Technical Training and Service Program
Provided by WeGO & NIA

WeGO, in collaboration with its Technical Partner, National Information Society Agency (NIA), will provide *a comprehensive Technical Training and Service Program on the WeGO e-Government Framework (WeGO eGovFrame)* to help its member cities develop Web and mobile e-Government applications based on the WeGO eGovFrame.

The WeGO eGovFrame

The WeGO eGovFrame is a standardized and open source software framework developed to help governments efficiently develop and operate e-Government applications. The WeGO eGovFrame consists of four software environments – development, runtime, operation and management – as well as hundreds of reusable common components of e-Government systems, and also provides mobile web UX Functions and Mobile Device API for both web-based mobile services and hybrid mobile apps. Details of the eGovFrame can be found at http://eng.egovframe.go.kr.

Benefits of the WeGO eGovFrame

❑ *Efficiency: Reduced Time and Costs*
- Provides general technical infrastructure of software applications, allowing developers to focus on writing code for the business logic
- Simplifies software development process by providing standardized tools for developing software and built-in decisions about fundamental architecture and design issues
- Improves productivity by increasing the reusability of common components of e-Government application systems developed through the standard framework

❑ *Quality: Increased Satisfaction of Governments and Citizens*
- Raises quality of software applications by providing technical code for generic services needed by most applications, where developers are prone to making errors
- Enhances interoperability of e-Government systems and information-sharing between government agencies through standard inter-system integration interface

❑ *Independence from IT Company Vendors: Enhanced SME Competitiveness*
- Avoids dependency on vendor's technology for maintenance of software applications that are based on vendor's proprietary framework
- Improves SME competitiveness by sharing open source framework and providing developers with free, cutting-edge and easy-to-use technology

Target Participants of the WeGO eGovFrame Technical Training Program

The WeGO eGovFrame Technical Training Program is targeted specifically to **software developers of WeGO member cities**. **Intermediate-level of knowledge of Java programming and Web programming is required** and the following prerequisite skills may be helpful to understand the WeGO eGovFrame.

<Prerequisite Skills and Knowledge>
- Java / Web Development (JSP & Servlet)
- Spring Framework (IoC, AOP, Spring MVC)
- Basic of HTML, CSS, Javascript
- Basic of RDBMS (Oracle, MySQL, etc)
- Web Application Server (Tomcat, Weblogic, etc)

Additional for Mobile
- jQuery & jQueryMobile, HTML5 & CSS3
- Hybrid App (Cordova, PhoneGap)

Any WeGO member cities planning on building new e-Government applications are recommended to take the WeGO eGovFrame Technical Training Program to utilize the open source software framework, the WeGO eGovFrame.

Details of the WeGO eGovFrame Technical Training Program

The WeGO eGovFrame Technical Training Program is a **complimentary, 4-day program** (please see the curriculum below) exclusively offered to WeGO members with two options for locations – Korea or home country of the participants.

Location of the WeGO eGovFrame Technical Training Program

❑ *Korea:*

WeGO and NIA will offer training programs in Korea in 2017. **Applicants may choose and participate in one of the Korea Programs that takes place at the most suitable time for them** (all programs will cover the same materials). Participants must cover their **own travel expenses including airfare and accommodation costs**. The classroom facilities for the training program will be provided by WeGO and NIA, but participants will be asked to bring their own laptops. **Dates will be announced soon**.

❑ *Participants' Home Country:*

The training program can also be arranged in the home country of the participants if the travel expenses of **at least two expert trainers can be fully sponsored by the participant city**, including airfare and accommodation costs. Also, the participant city will be responsible for arranging the facilities (room with chairs, desks and so on) for the training program. The dates of the training in the

participants' home country will be flexibly decided by considering the schedules of the WeGO Secretariat, NIA and the participant city.

Curriculum of the WeGO eGovFrame Technical Training Program

Day	Course	Description	Time
Day 1	Overview	***Overview of the WeGO eGovFrame and Common Components*** • Configuration of eGovFrame and common components • Structure of eGovFrame • Licensing for Open Source SWs and eGovFrame • Instructions on Licensing	1Hr (9:00 - 10:00)
	Common/ Development Environment	***General Practice*** • Overview on the Practice Session & Installation ***Configuration of the Development Environment*** • Organization of the local development environment using eclipse • Building and configuration of deployment environment	2Hr (10:00 – 12:00)
	Development Environment	***Introduction to Development Environment*** • Utilization of Maven • Practice on sample Test Cases • CI (Continuous Integration) • Introduction to development environment	3Hr (13:00 - 16:00
	Common Components	***Application of Common Components*** • Introduction to services of common components and demonstration	2Hr (16:00 - 18:00)
Day 2	Runtime Environment	***Runtime Environment (Foundation / Common Base Layer)*** • IOC, AOP	4Hr (9:00 - 14:00)
		Runtime Environment (Persistence / Data Processing layer) • Data Access, Data Source, ORM, Transaction, etc. • Practice on Query XML based on DAO, DBIO functions	4Hr (14:00 - 18:00)
Day 3	Runtime Environment	***Runtime Environment*** ***(Presentation / Screen Processing Layer)*** • MVC, UI Adaptor, Validation, Internalization, Ajax Support	3Hr (9:00 - 12:00)
		Runtime Environment (Batch layer) • Batch Core, Execution, Support , etc.	2Hr (13:00 - 15:00)
	Practice	***Hands-On Practice of Runtime Environment***	3Hr (15:00 - 18:00)
Day 4	Mobile eGovframe	***Mobile Runtime Environment (UX Component)*** • Introduction to Mobile eGovFrame • Configuration and structure of mobile web-enabled environment	3Hr (9:00 - 12:00)

Day	Course	Description	Time
		Application of Mobile UX Components • Practices on application of mobile UX components	2Hr (13:00 - 15:00)
		Development Environment of Mobile Device API • Guidelines and practices on configuration of development environment of mobile device API	2Hr (15:00 - 17:00)
	Test	*Examination and Certification* • Certificate to be provided to any participant with 80% attendance rate and test score of 60 and above	1Hr (17:00 - 18:00)

*Program is subject to change.

WeGO eGovFrame Technical Support Service

Participants can receive remote, technical support service after the training program by scheduling service time with the eGovFrame Center, if any further assistance with applying the WeGO eGovFrame is needed.

❑ Contact Point: Mr. Jang, Sungho / eGovFrame Center
   Tel: +82-70-8795-1225 / Email: sh.jang@dcsc.co.kr, egovframe@nia.or.kr

Registration
for the WeGO eGovFrame Technical Training Program

If you are interested in the WeGO eGovFrame Technical Training Program, **please submit (i) the following information** and **(ii) your resume** to the WeGO Secretariat.

❑ **Contact Point: Earl Burgos**
   Tel: +82-2-720-2934/ Email: earl@we-gov.org, program@we-gov.org, secretariat@we-gov.org

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• **Name:**

• **Official Title:**

• **City Name:**

• **Expected Number of Participants:**
   The Technical Training Program is offered to software developers of WeGO member cities. The maximum number of participants per training program is limited to 50.

• **Preferred Location of the Training:**
   The Technical Training Program can be held either in Korea or at the home country of the participants.

• **Preferred Dates of the Training:**
   If you would like to take the training in your country, please let give us your preferred date. If you want to have the training in Korea, please let us know, and we will get back to you on possible dates.