CS352 – Software Engineering II

Phase 1

2015

Project Team

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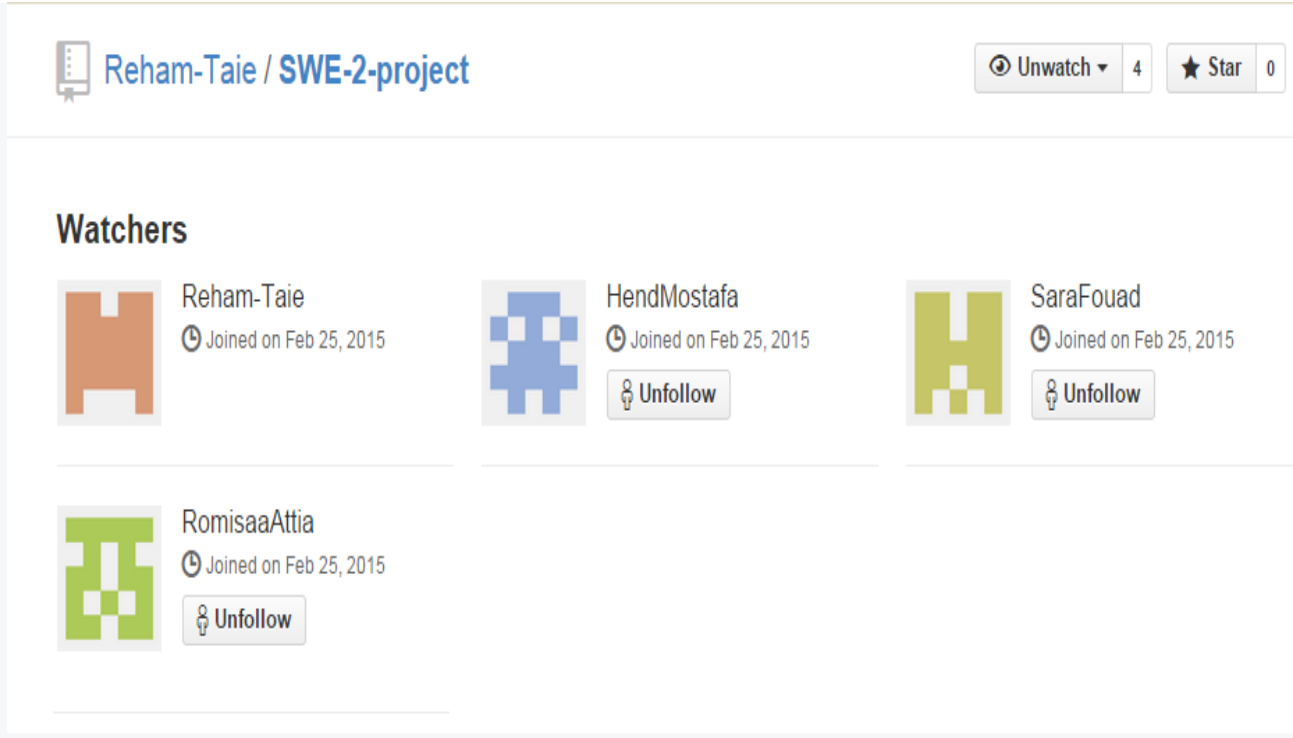
Github repository link

GitHub repository is a location where all the files for a particular project are stored so it helps us to upload and store our project in it and help the team to work in a group.

Any one of the team can clone the repository and modify and work in his part then can push his work

https://github.com/Reham-Taie/FCI-CS352-SWE-Team.git

- **each member of this team on this repository**
  " FCI-CS352-SWE-Team "



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Used Technologies

- github
- trello
- google app engine
- JSP/Servelt
- Google big table
- Jax-RS

- **Trello** is a free web-based project management application it uses a paradigm for managing projects ,it help in managing project and support issues GitHub is a web-based Git repository hosting service ,It provides several features such as task management, and bug tracking and feature requests for every project.

- **Google App Engine** is a Platform as a Service (PaaS) offering that lets you build and run applications on Google's infrastructure App Engine applications are easy to build, easy to maintain, and easy to scale as your traffic and data storage needs change with App Engine, there are no servers for you to maintain. You simply upload your application and it's ready to go**.**

- **Github:** GitHub is the best place to share code with co-workers and classmates, it allows users to change, adapt and improve software ,it offers free public repositories and collaborations for open-source software creation

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- **Java Servlets** are programs that run on a Web or Application server and act as a middle layer between a requests coming from a Web browser or other HTTP client and databases or applications on the HTTP server.

  Java Server Pages (JSP) is a server-side programming technology that enables the creation of dynamic, platform-independent method for building Web-based applications • In JSP, It is more convenient to write (and to modify!) regular HTML

- **JSP/Servlet** **JSP** is a webpage scripting language that can generate dynamic content while **Servlets** are Java programs that are already compiled which also creates dynamic web content.

  Servlets run faster compared to JSP, **JSP** can be compiled into Java Servlets It's easier to code in JSP than in Java Servlets In MVC, jsp act as a view and servlet act as a controller. **JSP** are generally preferred when there is not much processing of data required. But **servlets** are best for use when there is more processing and manipulation involved. The advantage of JSP programming over servlets is that we can build custom tags which can directly call Java beans.

  There is no such facility in servlets. We can achieve functionality of JSP at client side by running JavaScript at client side. There are no such methods for servelts.

- **Google Big Table** is a distributed storage system that is structured as a large table one that may be petabytes in size and distributed among tens of thousands of machines.

  It is designed for storing items such as billions of URLs, with many versions per page; over 100 TB of satellite image data; hundreds of millions of users; and performing thousands of queries a second. Big table was developed at Google in has been in use since 2005 in dozens of Google services. An open source version, HBase, was created by the Apache project on top of the Hadoop core.

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BigTable is a compressed, high performance, and proprietary data storage system built on Google File System,It is not distributed outside Google, although it underlies Google Datastore, which is available as a part of Google Cloud Platform.

- **JAX-RS:** Java API for RESTful Web Services (JAX-RS) is a Java programming language API that provides support in creating web services according to the Representational State Transfer (REST) architectural pattern. JAX-RS uses annotations, introduced in Java SE 5, to simplify the development and deployment of web service clients and endpoints.

Frontend environment

- **frontend technology : we will use (Web)**

Role of each member in the team

Member name	Role
Reham Sami Taie	create github account ,trying to create workspace, searching and understanding the code
Romisaa Aattia Hussein	create github account , trying to create workspace, searching and understanding the code
Sara fouad	create github account , trying to create workspace, searching and understanding the code
Hend Mostafa	create github account, trying to create workspace , searching and understanding the code