Tree structural web page

User guide
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Top help topics

requirement
[main page](main-page)
[adding child node](adding-child-node)
[updating child node](updating-child-node)
[deleting child node](deleting-child-node)
[moving child node](moving-child-node)

requirements

For runnig this web page, you need the following tools:
1- Apache Tomcat ver 8.0
2-MySQL Community Server and MySQL Workbench(GUI Tool)
3-MySQL Connector for Java
4- jstl.jar and standard.jar. (You can get these jars from your Tomcat)

Also, before runnig the webpage, create the database and table with the following SQL scripts.
create database database;
use database;
CREATE TABLE `database`.`tree`
 (`id` INT NOT NULL AUTO_INCREMENT,
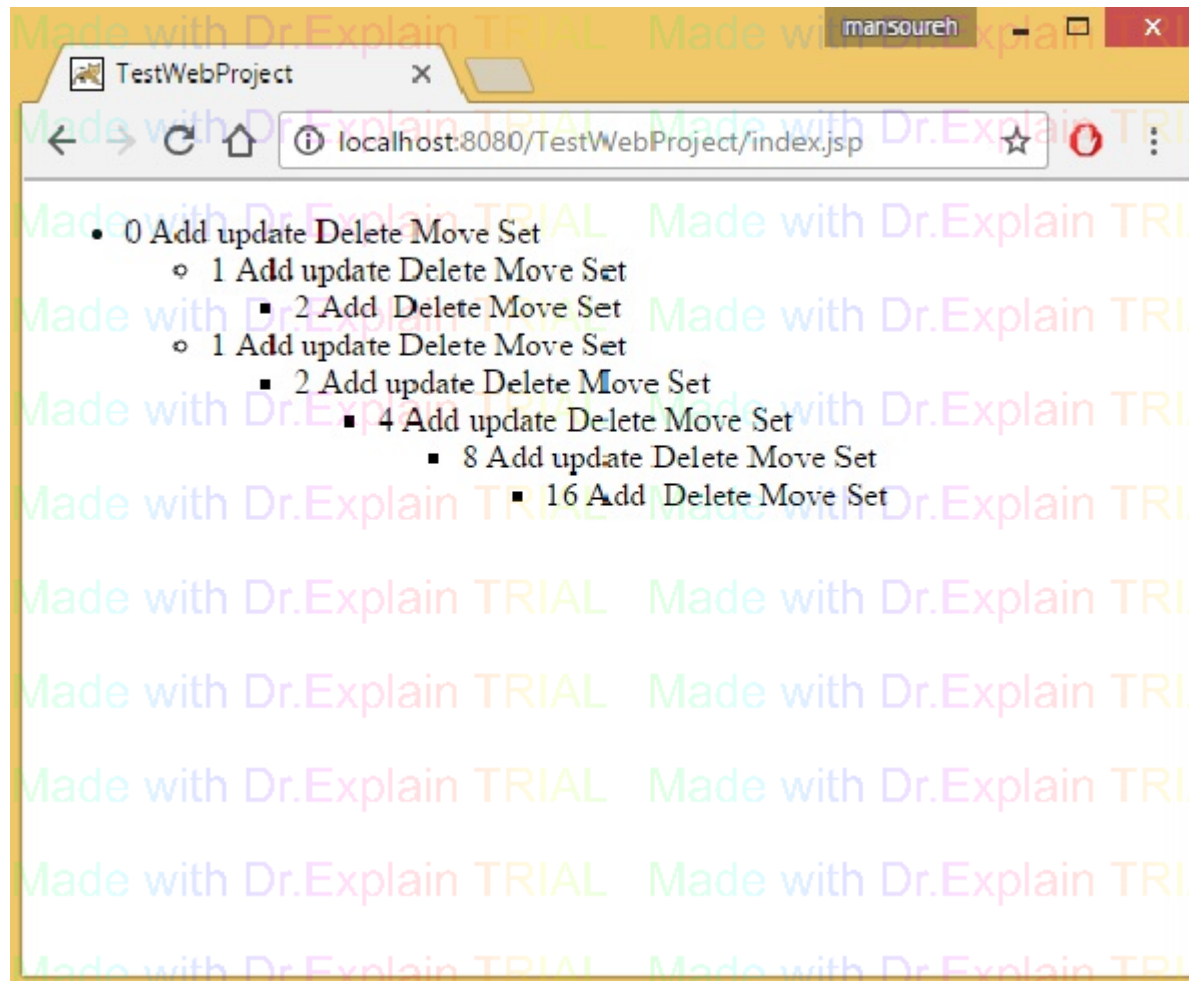`idparent` INT NULL, `content` INT NULL,
  PRIMARY KEY (`id`));

For deploying the project on Tomcat, user needs:
1- Copy the WAR file into $CATALINA_HOME\webapps directory.
2- Restart the server. Whenever Tomcat is started, it will unpack the WAR file it found in the webapps directory and launch the application in that manner.

main page

In this web page, a tree structural is shown. The user can add, delete, move and update value of each node in the tree. The content of each node is equal to content of all parents node plus one.
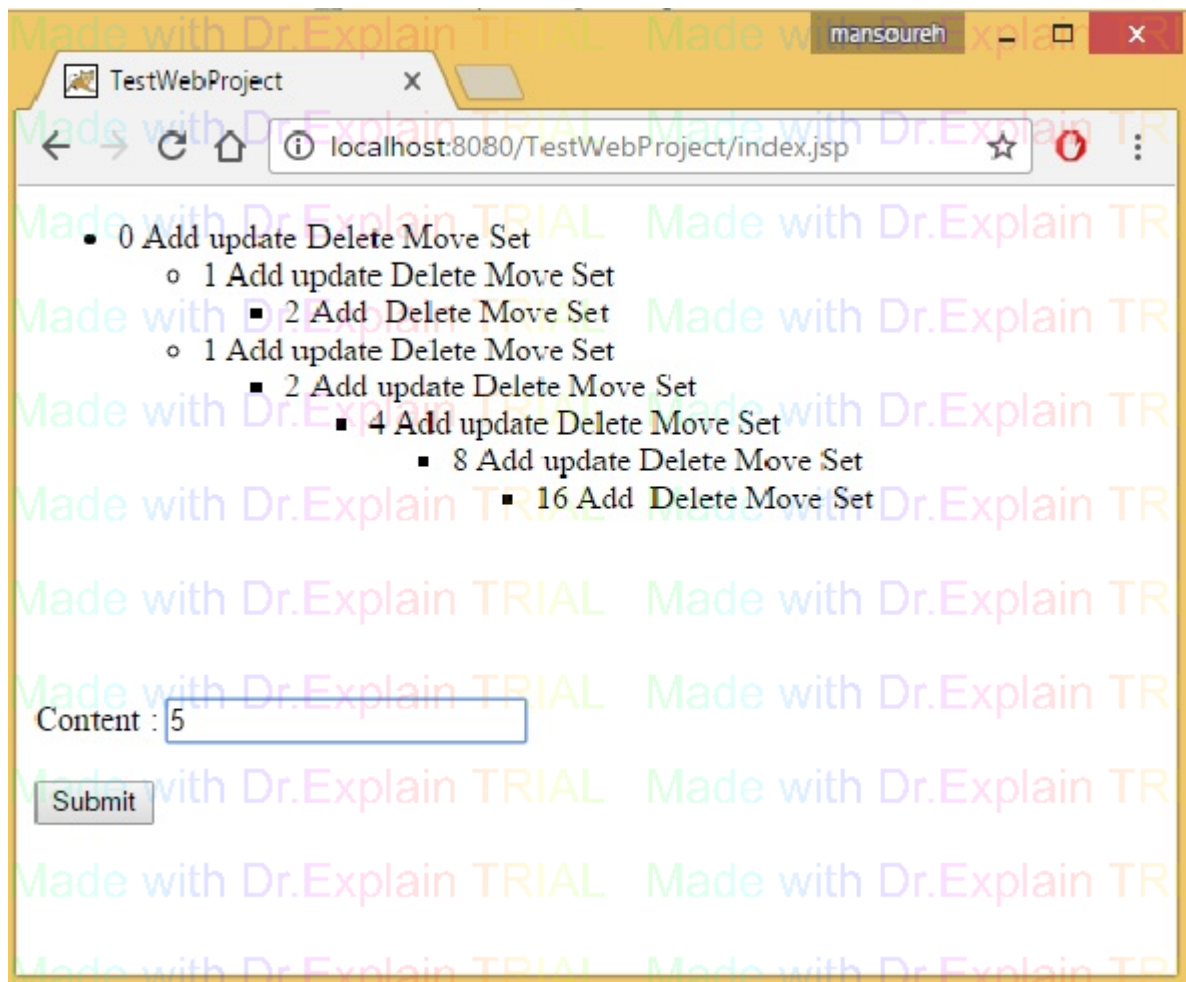
adding child node

For adding a node in the tree structure, it is necessary to click on the add text. By clicking on the add text, a new node will be generated as the child node of the clicked node. The content of the new node wil be the content of its all parent content plus one.

updating child node

User can update the value of each node except leaf node in the tree structure. For this purpose, user should click on the update text in order that a input form will be appeared. In this form, user can enter a new value for the chosen node. In this way, the value of the chosen node and all its child will be updated.

deleting child node

For deleting each node, user should click on the delete text. User also can delete whole tree structure by deleting the root node.

moving child node

User can change the position of each node in the tree structure. The only constraint is that user cannot transfer a node below its children nodes. It is an illegal move and will not be done.

For moving a node to a new position, user should click on the move button, in this way the set button will be appeared near each node and user can choose the destonation node. By changing position of node, the content of tree structure also be updated. Since the policy in this tree structure is that the content of each node is sum of content of all its parent plus one.