Understanding Tree

Installation & Configuration Guide

Authors: **Satish Chinta, Praveen Kondasani**

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Report History

Revision History

Revision date	Author	Version	Summary of Changes	Changes marked
Oct 12, 2015	Satish Chinta	V0	Initial draft	

Approvals

This document requires the following approvals:

Name	Title	Date of Issue	Version

Distribution

This document has additionally been distributed to:

Name	Title	Date of Issue	Status

Table of Contents

Page

Report History ____ 2

Revision History ____ 2

Approvals ____ 2

Distribution ____ 2

Purpose ____ 4

Requirements ____ 4

Installation Procedure ____ 4

Install MongoDB database ____ 4

Install NodeJS ____ 4

Install Understanding Tree ____ 4

Customization ____ 7

Appendix ____ 8

Purpose

The purpose of this document is to provide step-by-step procedure for Understanding Tree web application (henceforth referred as **uTree**) setup.

Requirements

uTree needs following software to be installed on the windows server:

Item	Version	Installer Name	Download URL
NodeJS	Node JS v0.12.7 NPM 2.11.3	Windows Installer (64bit) v4.2.1	https://nodejs.org/en/download/
Mongodb	3.0.6	Windows 64bit 2008R2	https://www.mongodb.org/downloads#production

Installation Procedure

Install MongoDB database

1. Download MongoDB Windows 64bit 2008R2 from https://www.mongodb.org/downloads#production
2. Choose Custom Install option and install it into c:\mongodb folder (preferably). *Note: Do not install MongoDB under Program Files folder.*

Install NodeJS

1. Download and install NodeJS Windows Installer (64bit) v4.2.1 from https://nodejs.org/en/download/
   Note: By default NodeJS use port 3000. In-case if you are using port 3000 for some other need, please alter the port number of existing app, and dedicate port 3000 for uTree application.

Install Understanding Tree

1. Copy uTree source code into c:\uTree folder (preferably), and do the necessary configuration changes:
   a. Web Service URI path: Go to `..\application\dist\index.js` and change the value of urlDomain in Global parameters section. e.g.,
      `var urlDomain = "http://localhost:3000/users/";` → for local database
      `var urlDomain = "http://54.175.159.77:3000/users/";` → for non-local database, replace the ip address with your concerned hosting server address
2. Setup needed NodeJS libararies:
   a. Go to `..\application\` folder and run the following command in the command prompt window.
      `c:\utree\applciation>` **`npm install`**

Run uTree Application

Follow the steps below to bring up the Understanding Tree web application:

1. Run NodeJS service

a. Open Command prompt window with Run as Administrator privileges

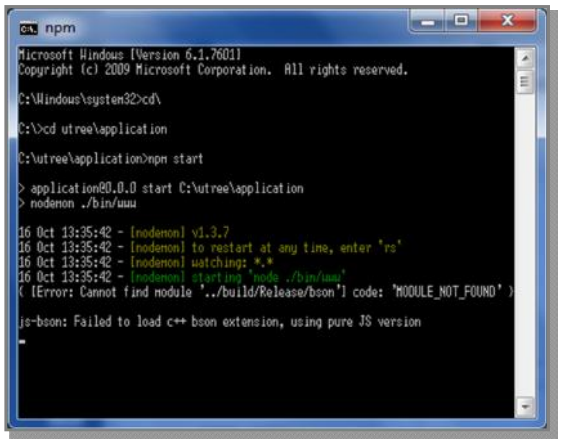
i. Click Start, click All Programs, and then click Accessories.

ii. Right-click Command prompt, and then click Run as administrator.

iii. If the User Account Control dialog box appears, confirm that the action it displays is what you want, and then click Continue.

b. Go to `c:\utree\application` folder

c. Start NodeJS service at command prompt using `c:\utree\applciation> npm start`



2. Run MongoDB service

a. Open Command prompt window with Run as Administrator privileges

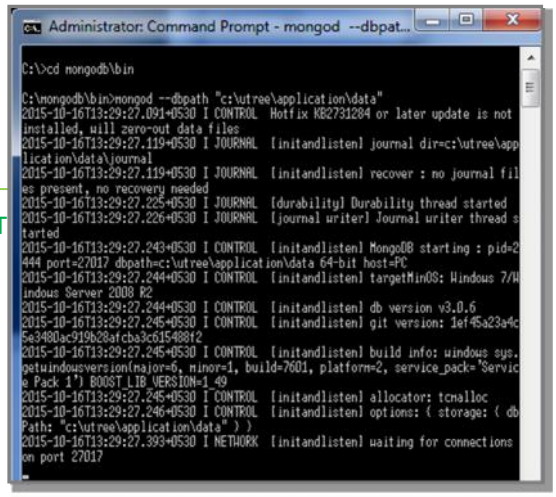
i. Click Start, click All Programs, and then click Accessories.

ii. Right-click Command prompt, and then click Run as administrator.

iii. If the User Account Control dialog box appears, confirm that the action it displays is what you want, and then click Continue.

b. Go to MongoDB home folder i.e., `c:\mongodb\bin`

c. Start service using using :> `mongod –dbpath “c:\utree\application\data”`



You have successfully kick started all the needed services for uTree.

3. Access uTree web application

You can start accessing uTree web application using the following url in any internet browsers : Chrome, Firefox.

uTree URL: `<ipaddress>/utree/application/index.html`

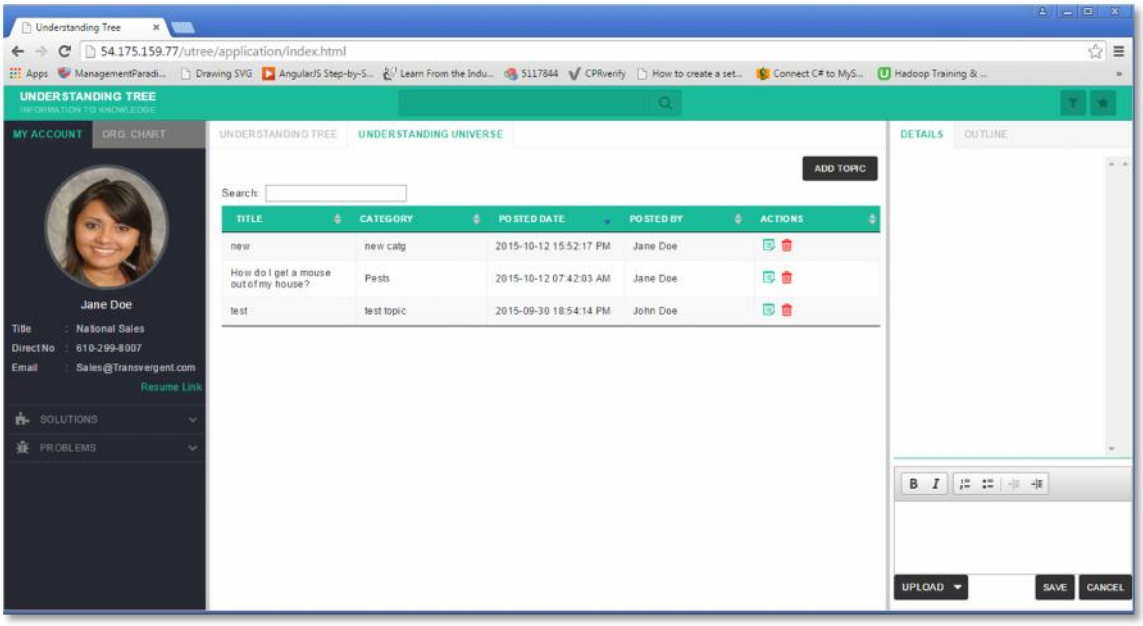


Figure: Main page for Understanding Tree web application

4. Stop Understanding Tree system

1. Close NodeJS service
    a. Go to NodeJS command window and press CTRL + C to close the NodeJS service
2. Close MongoDB service
    a. Go to MongoDB command window and press CTRL + C to close the database service

Customization

System allows customizing following features/attributes:

Description	File Location	Data Field	Supported Values
Show/hide the branch title	..\application\dist\index.js	showNodeText	True False
Show or hide the branch links	..\application\dist\index.js	showLinks	True False
Show or hide nodes in the tree	..\application\dist\index.js	showNodes	True False
Alter the diagonal branch length	..\application\dist\index.js	diagonalLength	Integer e.g., 600
Alter the divergent branch length	..\application\dist\index.js	divergentLength	Integer e.g., 400
Alter the Voting (standard) scale values	..\application\dist\index.js	votingScale	Array of 5 integer values
Alter the Dampening (Solution) Voting scale values	..\application\dist\index.js	votingDampeningScale	Array of 5 integer values
Alter the labels in Voting pop-up's	..\application\index.html	Range Slider section: Items, Items2, Items3, Items4	

Appendix

Linux:

Item	Name / Version		Download URL
NodeJS	Linux Binaries (.tar.gz) 64-bit		https://nodejs.org/en/download/
Mongodb	Ubuntu 12.4 Linux 64-bit		https://www.mongodb.org/downloads#production