**Project Proposal**

**A Digital Watch**

**Course: SE305 Software Project Lab – I**

Submitted by

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| *Tulshi Chandra Das* | *ROLL: BSSE0811* | *2015-16* |

Document Version: 1.0

Submitted to

**SPL I Coordinators**

**Rezvi Shahariar, Assistant Professor, IITDU**

**Amit Seal Ami, Lecturer, IITDU**



**Institute of Information Technology**

**University of Dhaka**

**09-02.2017**

Project proposal on: A Digital Watch 

Date:

The supervisor,

Software Project Lab-1

Institute of Information Technology,University of Dhaka

Sub: spl-1 Proposalsubmition related

Project proposal on: A Digital Watch

**Title: A Digital Watch**

**Introduction:**

Time is very important in one’s life. Everyone has to maintain and observe the time in all of his moments of daily activities.So a well-organized dates and time representation is very helpful to anybody. This software is being developed from this aspect.

**Background:**

In past there were different systems for determining time like position of sun, shadow of sun position of moon to define times and dates. For example ”water clock”, ” candle clock”,”pendulum clock”,” sundial”, ”hourglass” etc were the ancient systems of time determination. With the progress of technology the modern watch is invented like led display watch, digital watch etc. The project will implement the several time related interface view such as watch, stopwatch, calendar etc.

**Description:**

At the run time the program will show the current system time and date automatically. But it can be edited as necessary. There have options to see local time of different countries as well as Greenwich Time. Another extra option is to determine the maximum benefits from different weighted work within a certain time.

**Motivation:**

Time and tide wait for none. Time should be used properly. A well interface of time and date is helpful to make the best use of time. This is the motivation of my project.

**Objectives and scopes:**

The objective of the project are to provide a well facilities of time maintenance and display. Implementing the relational equation to set calendar and to visit the calendar, and a database in a file to implement different countries local times.

**Functionality:**

First the program will run and then it will show the current local time and date. To edit the time user have to click the edit option and set the new time and date. Then to show the calendar there has option of calendar to click. To on stopwatch user have to click on stopwatch option and click start to start the stopwatch. Then one can see the time of others countries clicking option.

**Methodology:**

To implement the project java 1.7 will be used. For displaying the watch java GUI will be used.To get current time and date from system java library will be used and any other manipulation of time and date and customization options will be implemented in raw code. The project will include a stopwatch, a facility to find the local time of any country and maximum benefits from different weighted work within the bounded time.

**Constrains:**

Project is only the software implementation. To use this one should have a computer which has JDK installed.

**Risks:**

No risk for this project.

**Dependency:**

For the program JDK 1.8 is needed otherwise it will not work.

**Assumption:**

It is assumed to have the needed platform which is jdk 1.8 to run the project.

|  |  |
| --- | --- |
| Date | Task to be done |
| 10/01/2017 – 25/01/2017 | Project determination |
| 26/01/2017 – 5/2/01/2017 | Analysis |
| 6/2/2017 – 1/5/2017 | Coding |
| 2/5/2017 – 2/5/2017 | Testing |
| End date | Final report submission |

**Reference:**

Encyclopaedia Britannica, [National Maritime Museum](https://en.wikipedia.org/wiki/National_Maritime_Museum), Frugoni p,Davies- Norman- p. 434.

Project Proposal on: Encrypting data and transferring via network 

Date :09.02.2017

The coordinator, SPL-I

Institute of Information Technology, University of Dhaka

Sub: approval of project proposal

Sir,

With due respect, by referring to the above matter, I would like to present the Project Proposal document.

The main purpose for this proposal is to explain .I hope that you can go through this document and leave your signature if you agreed with the plan. Please notice for any modification.

Your cooperation is really appreciated.

Thank you.

Sincerely yours, supervisor:

Amit Seal Ami

Tulshi Chandra Das, roll: 0811

|  |  |  |  |
| --- | --- | --- | --- |
| AD | 42.546245 | 1.601554 | Andorra |
| AE | 23.424076 | 53.847818 | United Arab Emirates |
| AF | 33.93911 | 67.709953 | Afghanistan |
| AG | 17.060816 | -61.796428 | Antigua and Barbuda |
| AI | 18.220554 | -63.068615 | Anguilla |
| AL | 41.153332 | 20.168331 | Albania |
| AM | 40.069099 | 45.038189 | Armenia |
| AN | 12.226079 | -69.060087 | Netherlands Antilles |
| AO | -11.202692 | 17.873887 | Angola |
| AQ | -75.250973 | -0.071389 | Antarctica |
| AR | -38.416097 | -63.616672 | Argentina |
| AS | -14.270972 | -170.132217 | American Samoa |
| AT | 47.516231 | 14.550072 | Austria |
| AU | -25.274398 | 133.775136 | Australia |
| AW | 12.52111 | -69.968338 | Aruba |
| AZ | 40.143105 | 47.576927 | Azerbaijan |
| BA | 43.915886 | 17.679076 | Bosnia and Herzegovina |
| BB | 13.193887 | -59.543198 | Barbados |
| BD | 23.684994 | 90.356331 | Bangladesh |
| BE | 50.503887 | 4.469936 | Belgium |
| BF | 12.238333 | -1.561593 | Burkina Faso |
| BG | 42.733883 | 25.48583 | Bulgaria |
| BH | 25.930414 | 50.637772 | Bahrain |
| BI | -3.373056 | 29.918886 | Burundi |
| BJ | 9.30769 | 2.315834 | Benin |
| BM | 32.321384 | -64.75737 | Bermuda |
| BN | 4.535277 | 114.727669 | Brunei |
| BO | -16.290154 | -63.588653 | Bolivia |
| BR | -14.235004 | -51.92528 | Brazil |
| BS | 25.03428 | -77.39628 | Bahamas |
| BT | 27.514162 | 90.433601 | Bhutan |
| BV | -54.423199 | 3.413194 | Bouvet Island |
| BW | -22.328474 | 24.684866 | Botswana |
| BY | 53.709807 | 27.953389 | Belarus |
| BZ | 17.189877 | -88.49765 | Belize |
| CA | 56.130366 | -106.346771 | Canada |
| CC | -12.164165 | 96.870956 | Cocos [Keeling] Islands |
| CD | -4.038333 | 21.758664 | Congo [DRC] |
| CF | 6.611111 | 20.939444 | Central African Republic |
| CG | -0.228021 | 15.827659 | Congo [Republic] |
| CH | 46.818188 | 8.227512 | Switzerland |
| CI | 7.539989 | -5.54708 | Côte d'Ivoire |
| CK | -21.236736 | -159.777671 | Cook Islands |
| CL | -35.675147 | -71.542969 | Chile |
| CM | 7.369722 | 12.354722 | Cameroon |
| CN | 35.86166 | 104.195397 | China |
| CO | 4.570868 | -74.297333 | Colombia |
| CR | 9.748917 | -83.753428 | Costa Rica |
| CU | 21.521757 | -77.781167 | Cuba |
| CV | 16.002082 | -24.013197 | Cape Verde |
| CX | -10.447525 | 105.690449 | Christmas Island |
| CY | 35.126413 | 33.429859 | Cyprus |
| CZ | 49.817492 | 15.472962 | Czech Republic |
| DE | 51.165691 | 10.451526 | Germany |
| DJ | 11.825138 | 42.590275 | Djibouti |
| DK | 56.26392 | 9.501785 | Denmark |
| DM | 15.414999 | -61.370976 | Dominica |
| DO | 18.735693 | -70.162651 | Dominican Republic |
| DZ | 28.033886 | 1.659626 | Algeria |
| EC | -1.831239 | -78.183406 | Ecuador |
| EE | 58.595272 | 25.013607 | Estonia |
| EG | 26.820553 | 30.802498 | Egypt |
| EH | 24.215527 | -12.885834 | Western Sahara |
| ER | 15.179384 | 39.782334 | Eritrea |
| ES | 40.463667 | -3.74922 | Spain |
| ET | 9.145 | 40.489673 | Ethiopia |
| FI | 61.92411 | 25.748151 | Finland |
| FJ | -16.578193 | 179.414413 | Fiji |
| FK | -51.796253 | -59.523613 | Falkland Islands [Islas Malvinas] |
| FM | 7.425554 | 150.550812 | Micronesia |
| FO | 61.892635 | -6.911806 | Faroe Islands |
| FR | 46.227638 | 2.213749 | France |
| GA | -0.803689 | 11.609444 | Gabon |
| GB | 55.378051 | -3.435973 | United Kingdom |
| GD | 12.262776 | -61.604171 | Grenada |
| GE | 42.315407 | 43.356892 | Georgia |
| GF | 3.933889 | -53.125782 | French Guiana |
| GG | 49.465691 | -2.585278 | Guernsey |
| GH | 7.946527 | -1.023194 | Ghana |
| GI | 36.137741 | -5.345374 | Gibraltar |
| GL | 71.706936 | -42.604303 | Greenland |
| GM | 13.443182 | -15.310139 | Gambia |
| GN | 9.945587 | -9.696645 | Guinea |
| GP | 16.995971 | -62.067641 | Guadeloupe |
| GQ | 1.650801 | 10.267895 | Equatorial Guinea |
| GR | 39.074208 | 21.824312 | Greece |
| GS | -54.429579 | -36.587909 | South Georgia and the South Sandwich Islands |
| GT | 15.783471 | -90.230759 | Guatemala |
| GU | 13.444304 | 144.793731 | Guam |
| GW | 11.803749 | -15.180413 | Guinea-Bissau |
| GY | 4.860416 | -58.93018 | Guyana |
| GZ | 31.354676 | 34.308825 | Gaza Strip |
| HK | 22.396428 | 114.109497 | Hong Kong |
| HM | -53.08181 | 73.504158 | Heard Island and McDonald Islands |
| HN | 15.199999 | -86.241905 | Honduras |
| HR | 45.1 | 15.2 | Croatia |
| HT | 18.971187 | -72.285215 | Haiti |
| HU | 47.162494 | 19.503304 | Hungary |
| ID | -0.789275 | 113.921327 | Indonesia |
| IE | 53.41291 | -8.24389 | Ireland |
| IL | 31.046051 | 34.851612 | Israel |
| IM | 54.236107 | -4.548056 | Isle of Man |
| IN | 20.593684 | 78.96288 | India |
| IO | -6.343194 | 71.876519 | British Indian Ocean Territory |
| IQ | 33.223191 | 43.679291 | Iraq |
| IR | 32.427908 | 53.688046 | Iran |
| IS | 64.963051 | -19.020835 | Iceland |
| IT | 41.87194 | 12.56738 | Italy |
| JE | 49.214439 | -2.13125 | Jersey |
| JM | 18.109581 | -77.297508 | Jamaica |
| JO | 30.585164 | 36.238414 | Jordan |
| JP | 36.204824 | 138.252924 | Japan |
| KE | -0.023559 | 37.906193 | Kenya |
| KG | 41.20438 | 74.766098 | Kyrgyzstan |
| KH | 12.565679 | 104.990963 | Cambodia |
| KI | -3.370417 | -168.734039 | Kiribati |
| KM | -11.875001 | 43.872219 | Comoros |
| KN | 17.357822 | -62.782998 | Saint Kitts and Nevis |
| KP | 40.339852 | 127.510093 | North Korea |
| KR | 35.907757 | 127.766922 | South Korea |
| KW | 29.31166 | 47.481766 | Kuwait |
| KY | 19.513469 | -80.566956 | Cayman Islands |
| KZ | 48.019573 | 66.923684 | Kazakhstan |
| LA | 19.85627 | 102.495496 | Laos |
| LB | 33.854721 | 35.862285 | Lebanon |
| LC | 13.909444 | -60.978893 | Saint Lucia |
| LI | 47.166 | 9.555373 | Liechtenstein |
| LK | 7.873054 | 80.771797 | Sri Lanka |
| LR | 6.428055 | -9.429499 | Liberia |
| LS | -29.609988 | 28.233608 | Lesotho |
| LT | 55.169438 | 23.881275 | Lithuania |
| LU | 49.815273 | 6.129583 | Luxembourg |
| LV | 56.879635 | 24.603189 | Latvia |
| LY | 26.3351 | 17.228331 | Libya |
| MA | 31.791702 | -7.09262 | Morocco |
| MC | 43.750298 | 7.412841 | Monaco |
| MD | 47.411631 | 28.369885 | Moldova |
| ME | 42.708678 | 19.37439 | Montenegro |
| MG | -18.766947 | 46.869107 | Madagascar |
| MH | 7.131474 | 171.184478 | Marshall Islands |
| MK | 41.608635 | 21.745275 | Macedonia [FYROM] |
| ML | 17.570692 | -3.996166 | Mali |
| MM | 21.913965 | 95.956223 | Myanmar [Burma] |
| MN | 46.862496 | 103.846656 | Mongolia |
| MO | 22.198745 | 113.543873 | Macau |
| MP | 17.33083 | 145.38469 | Northern Mariana Islands |
| MQ | 14.641528 | -61.024174 | Martinique |
| MR | 21.00789 | -10.940835 | Mauritania |
| MS | 16.742498 | -62.187366 | Montserrat |
| MT | 35.937496 | 14.375416 | Malta |
| MU | -20.348404 | 57.552152 | Mauritius |
| MV | 3.202778 | 73.22068 | Maldives |
| MW | -13.254308 | 34.301525 | Malawi |
| MX | 23.634501 | -102.552784 | Mexico |
| MY | 4.210484 | 101.975766 | Malaysia |
| MZ | -18.665695 | 35.529562 | Mozambique |
| NA | -22.95764 | 18.49041 | Namibia |
| NC | -20.904305 | 165.618042 | New Caledonia |
| NE | 17.607789 | 8.081666 | Niger |
| NF | -29.040835 | 167.954712 | Norfolk Island |
| NG | 9.081999 | 8.675277 | Nigeria |
| NI | 12.865416 | -85.207229 | Nicaragua |
| NL | 52.132633 | 5.291266 | Netherlands |
| NO | 60.472024 | 8.468946 | Norway |
| NP | 28.394857 | 84.124008 | Nepal |
| NR | -0.522778 | 166.931503 | Nauru |
| NU | -19.054445 | -169.867233 | Niue |
| NZ | -40.900557 | 174.885971 | New Zealand |
| OM | 21.512583 | 55.923255 | Oman |
| PA | 8.537981 | -80.782127 | Panama |
| PE | -9.189967 | -75.015152 | Peru |
| PF | -17.679742 | -149.406843 | French Polynesia |
| PG | -6.314993 | 143.95555 | Papua New Guinea |
| PH | 12.879721 | 121.774017 | Philippines |
| PK | 30.375321 | 69.345116 | Pakistan |
| PL | 51.919438 | 19.145136 | Poland |
| PM | 46.941936 | -56.27111 | Saint Pierre and Miquelon |
| PN | -24.703615 | -127.439308 | Pitcairn Islands |
| PR | 18.220833 | -66.590149 | Puerto Rico |
| PS | 31.952162 | 35.233154 | Palestinian Territories |
| PT | 39.399872 | -8.224454 | Portugal |
| PW | 7.51498 | 134.58252 | Palau |
| PY | -23.442503 | -58.443832 | Paraguay |
| QA | 25.354826 | 51.183884 | Qatar |
| RE | -21.115141 | 55.536384 | Réunion |
| RO | 45.943161 | 24.96676 | Romania |
| RS | 44.016521 | 21.005859 | Serbia |
| RU | 61.52401 | 105.318756 | Russia |
| RW | -1.940278 | 29.873888 | Rwanda |
| SA | 23.885942 | 45.079162 | Saudi Arabia |
| SB | -9.64571 | 160.156194 | Solomon Islands |
| SC | -4.679574 | 55.491977 | Seychelles |
| SD | 12.862807 | 30.217636 | Sudan |
| SE | 60.128161 | 18.643501 | Sweden |
| SG | 1.352083 | 103.819836 | Singapore |
| SH | -24.143474 | -10.030696 | Saint Helena |
| SI | 46.151241 | 14.995463 | Slovenia |
| SJ | 77.553604 | 23.670272 | Svalbard and Jan Mayen |
| SK | 48.669026 | 19.699024 | Slovakia |
| SL | 8.460555 | -11.779889 | Sierra Leone |
| SM | 43.94236 | 12.457777 | San Marino |
| SN | 14.497401 | -14.452362 | Senegal |
| SO | 5.152149 | 46.199616 | Somalia |
| SR | 3.919305 | -56.027783 | Suriname |
| ST | 0.18636 | 6.613081 | São Tomé and Príncipe |
| SV | 13.794185 | -88.89653 | El Salvador |
| SY | 34.802075 | 38.996815 | Syria |
| SZ | -26.522503 | 31.465866 | Swaziland |
| TC | 21.694025 | -71.797928 | Turks and Caicos Islands |
| TD | 15.454166 | 18.732207 | Chad |
| TF | -49.280366 | 69.348557 | French Southern Territories |
| TG | 8.619543 | 0.824782 | Togo |
| TH | 15.870032 | 100.992541 | Thailand |
| TJ | 38.861034 | 71.276093 | Tajikistan |
| TK | -8.967363 | -171.855881 | Tokelau |
| TL | -8.874217 | 125.727539 | Timor-Leste |
| TM | 38.969719 | 59.556278 | Turkmenistan |
| TN | 33.886917 | 9.537499 | Tunisia |
| TO | -21.178986 | -175.198242 | Tonga |
| TR | 38.963745 | 35.243322 | Turkey |
| TT | 10.691803 | -61.222503 | Trinidad and Tobago |
| TV | -7.109535 | 177.64933 | Tuvalu |
| TW | 23.69781 | 120.960515 | Taiwan |
| TZ | -6.369028 | 34.888822 | Tanzania |
| UA | 48.379433 | 31.16558 | Ukraine |
| UG | 1.373333 | 32.290275 | Uganda |
| UM |  |  | U.S. Minor Outlying Islands |
| US | 37.09024 | -95.712891 | United States |
| UY | -32.522779 | -55.765835 | Uruguay |
| UZ | 41.377491 | 64.585262 | Uzbekistan |
| VA | 41.902916 | 12.453389 | Vatican City |
| VC | 12.984305 | -61.287228 | Saint Vincent and the Grenadines |
| VE | 6.42375 | -66.58973 | Venezuela |
| VG | 18.420695 | -64.639968 | British Virgin Islands |
| VI | 18.335765 | -64.896335 | U.S. Virgin Islands |
| VN | 14.058324 | 108.277199 | Vietnam |
| VU | -15.376706 | 166.959158 | Vanuatu |
| WF | -13.768752 | -177.156097 | Wallis and Futuna |
| WS | -13.759029 | -172.104629 | Samoa |
| XK | 42.602636 | 20.902977 | Kosovo |
| YE | 15.552727 | 48.516388 | Yemen |
| YT | -12.8275 | 45.166244 | Mayotte |
| ZA | -30.559482 | 22.937506 | South Africa |
| ZM | -13.133897 | 27.849332 | Zambia |
| ZW | -19.015438 | 29.154857 | Zimbabwe |