

Internship on Software Testing Services

BY

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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DAFFODIL INTERNATIONAL UNIVERSITY

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APPROVAL

This Internship titled “**Software Testing Services**”, submitted by Md Aslam Tauhid Reza to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as suitable for the partial completion of the requirements for the degree of B.Sc. in Computer Science and Engineering (BSc) and approved as to its style and contents. The presentation has been held on 10th December 2018.

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DECLARATION

I hereby announce that, this internship report is ready by me Md Aslam Tauhid Reza, ID No: 161-15-6913 to the department of Computer Science and Engineering, Daffodil International University. Under the supervision of **Rubaiya Hafiz, Lecturer, Department of CSE**, Daffodil International University.

I also announce that neither this internship report nor any part of this internship report has been submitted elsewhere for award of any Degree or Diploma. I also declare that, I collect information from <http://spiralworld.my>, Books and Internet.

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I am grateful to **Engr. Mohammed Liakwat Ali Khan**, General Manager of Daffodil Computer Limited. Without his continuous support I can't continue my internship in the company. Other members of the company helped me a lot for doing my internship.

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I would like to say heartiest gratitude to **Dr. Syed Akhter Hossain**, Professor and Head, Department of CSE, for his kind help to finish my internship and also to other faculty member and the staff of CSE department of Daffodil International University.

I would like to thank whole course friend in Daffodil International University, who took part in this talk about while completing the course work. Finally, I must acknowledge with due high opinion the constant support and patients of parents.

ABSTRACT

I have learned about software testing and maintenance from my intern institute. It is very helpful to me that I can grow my life by using software testing. I have checked some website and I have mentioned it into chapter 3. There are some of tools make me found out testing of software and by using tools I have successfully found some testing criteria. In sometimes I have faced several problem and I have solve it by using online and my intern teacher help me very much to solve it. I have make a Use Case diagram that shown the content of my activities on internship. I have used different types of tools that I have mentioned in the references, this types of tools can make a software quality full and efficient for users. This tools refers which area are not efficient for users and which are weakness for software, such as loading time, traffic, status of website, SEO scores etc. This of all criteria is the most important of software. I think this area of learning make all of learner perfect.

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CHAPTER 1

Introduction

1.1 Introduction

In the past decade, the software has many changes in the software and many changes are needed in order to implement various software products and the applications are realized for the success of the business, and testing and testing of these types of test types form the choruses and software tests. . As a result of this experiment, we can learn by examining the community and the development of the career laughs.

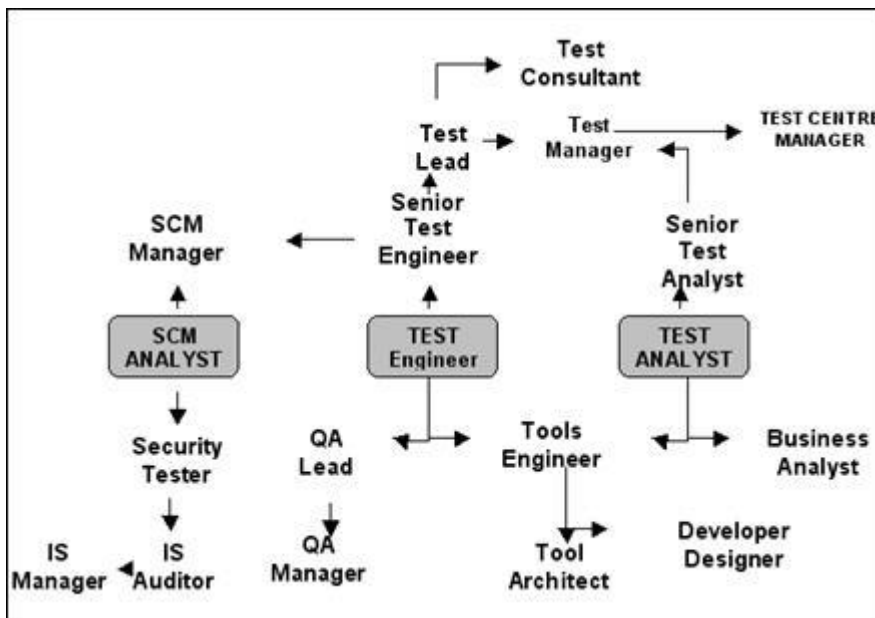


Fig 1.1.1: Software testing process

It is said that aspiring young people as it is a good professional profession, this can be slowly becoming a senior, experimental engineer, and this software can lead to any testing of such tests, otherwise the manager may be. The tools available are greatly available, Java Python etc. Automation scripting skills are less accurate As a result of this Testing Test, the market is in the best performance. Rather, the prices come all the way. The problem can be detected and tuning strategies can be recommended by experts for the purpose of examining A seen following some of the important features of the software life cycle testing process. [1]

Domain Knowledge

Automation Testing Tools Knowledge Automation comes with a lot of skill. Basic tools should have a skilled skill test automation in scripting language. The Automation Framework Test, Verify, and Improving Knowledge Need Too Much.

Certification - QAI, ASQ, and many other organizations are tested in specific certifications. This certification test improves the confidence of professional clients. CCTM, PMP, some managed certifications, which helps professionals a half. Test equipment certification given by the seller like HP increases the technical expertise of the person.

Niche areas in Testing – Experts predict that the prominent areas like SOA testing, the speed of the test site's security test are increasing. Many tools are rising in this area. As an exam professional, we should be aware of where our industry headlines should be updated and where our knowledge should be updated. Benefits for professional examiners and businesses Knowledge is from a perspective.

1.2 Motivation

Motivation: Now a days I have realized the realistic knowledge by doing Internship in Daffodil International University. During the internship I also saw that I feel completely skilled in the details of effective testing, regression testing, UX testing, compatibility tests, system testing performance testing, website and web application testing, test documentation, test management. I must have the ability to read my skills and to understand the situation and to work quickly and efficiently.

1.3 Internship Objectives

The aim of my Internship is to make myself ready for the competitive world as I know that efficiency and experience is essential for any development. I have wanted to do relate my CSE course with the efficiency so that I would able to shift myself to a job.

1.4 Introduction to the Company

Daffodil Computer Inhibited is a leading Internet Accommodation Provider (ISP) in Bangladesh. They are the most experienced and oldest organization in the ICT field where they have long-term relationships with their rudimentary business policies and customers. We look forward to the magnification of our decade, they are proud of what they have achieved, and they are even more exhilarated for a more prosperous future.

It could tell you that they commenced operation in 1990. In the last few years, according to customer recommendation and time requisites, they have expanded operations and accommodations portfolio. They work with many national projects and international organizations and gain fame. They are utilizing the latest technology and they are upgrading wherever they are needed. They are able to provide a sophisticated network and telecommunication solution with an adroit technical expertise group of Corporate Network Solutions

1.5 Report Layout

In the chapter (1) I have described objective of internship, Motivation of internship and Prelude to the company.

In the chapter (2) I have described the methodology of my internship and this chapter gives the information about where the internship has been annexed to undertake this program. Additionally included about how did perform the internship works, about the company, what are the Software accommodation offered in Daffodil Compute Ltd and what are the roles of in jobs market of Software Testing.

In the chapter (3) I have described about daily task and activities, Events and Activities and Challenges.

In the chapter (4) I have described is Competencies Earned, Astute Plan, Reflections.

In the chapter (5) I have described is Conclusion and Future Scope. I discuss Future Scopes of Software Testing and conclusion.

CHAPTER 2

Organization

2.1 Introduction about the company

The name of my company where I did my internship is Daffodil computers Limited [2]

Corporate Office	64/3 Lake Circus, Mirpur Road, Kalabagan Dhaka - 1205
Company Type	Public listed Company
Communication	Tel- <u>+88 02 9116600</u> , Fax: <u>+8802 58153690</u> , Tel- <u>+88 02 9116600</u> , Fax: <u>+8802 58153690</u> , Email: <u>info@daffodil-bd.com</u>
Internet Reference	<u>www.daffodil-bd.com</u>
Contact	Mobile : <u>+8801713 493161</u> , Email: <u>jafar@daffodil-bd.com</u>
Year of Establishment and Registration	1990
Subsidiary Companies	Spiral World Daffodil International School (DIS) Dolphin Computers Ltd Daffodil Software Ltd (DSL) Jobsbd.com Daffodil International Professional Training Institute (DIPTI)
Associated Organizations	Daffodil Institute of Information Technology (DIIT) Daffodil International Academy (DIA) Daffodil International College (DIC) Bangladesh Skill Development institute (BSDI) Daffodil Polytechnic Institute (DPI) Daffodil Online Ltd. (DOL) Computer Clinic Ltd
Representing Brands	daffodil PC – Brand PC of Bangladesh, Intel – processors, add on cards, NIC, Maxtor - HDD, Kingston - Memory, Mitsumi – Keyboard and Mouse, Cyber – Media, CISCO – Network, Tyan - Server Boards, Albatron – Mother Boards, Chintex – PC Accessories, ALBATRON – High End Display Cards, HP – All Computing needs, Large and Small format Printers, APC - UPS, Microsoft – All Software Products, Mcafee , CA , Norton – Anti Virus Software.
Membership/ Association in relevant field	Dhaka Chambers of Commerce & Industries (DCCI) Federation of Bangladesh Chambers of Commerce & Industries Bangladesh Computer Samity (BCS) Bangladesh Associations of Software & Information Services (BASIS) American Chamber of Commerce (AmCham) Malysia-Bangladesh Business Chamber Australia-Bangladesh Business Council Dhaka Stock Exchange Chittahong Stock Exchange
Branches and Distributors	Dhaka, Narayangonj, Chittagong, Cox's Bazar, Comilla, Khulna, Bogra, Sylhet, Dinajpur, & Rangpur

2.2 Product and Market Situation

Daffodil Computers Ltd. compelled continues as an item firm to influence applications, to site, and custom programming others application. We know now day is a modernized development day. New creative energy things are open at unavoidably, that is striving for business focus. (DSL) Daffodil programming compelled is such affiliations that know how to make business focus. Site design fuses an extensive variety of expertise and prepares in the creation and affirmation of destinations. The unmistakable parts of site structure join web visual delineation; interface arrangement; making, including unsurprising code and prohibitive programming; customer experience design; and webpage outline change. Every now and again various individuals will work in bunches covering unmistakable parts of the diagram method, though a couple of originators will stand up to them all. The articulation site engineering is customarily used to clear up the layout technique relating to the front-end (client side) plan of a site including creating increment. Site engineering not so much covers web working in the more broad degree of web progression. [3]

Administration We Offer

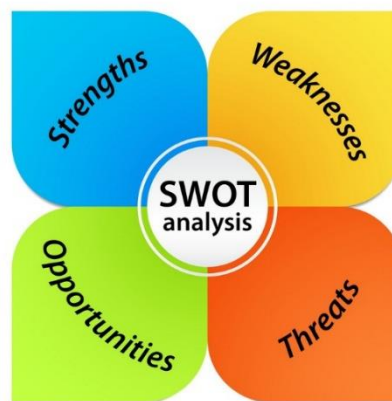
- Software Customization
- Data Migration and Porting Solutions
- 24/7 Technical Support by our proficient and expert specialized staff
- Timely compelling and predictable specialized help and effective experience
- Sample Training in various drew nearer. Preparing is given by first rate specialists on the web or lives nearby
- Software testing administration by ensured analyzer from ISTQB
- By Implementing programming our advisor guarantees most extreme results of your speculation at Daffodil Computers Limited
- Graphics Design, Multimedia, Animation
- E-learning, Google, Module
- Internet TV, Internet Radio
- Software Testing Service
- Smart Card Solution
- Expertise of Social Media Marketing

2.3 Target Group

Any organization has an objective. Target is a piece of objective. Target is the primary reality in any organization. Trustworthiness is the best thing for organization so you need to give best administrations in any customers and any organization. We can do target top off help and oversee representative adequately to accomplish maintainable outcomes in our organization. We need to progress our trip to high Situation try to duplicate/increment what they have - Riches, abilities, impact, and their customer & business. There are numerous business focuses on our organization streams this zone Education, Hospital, Clinic, Cement Industry, Lather Industry, Garments Industry, Real Estate Company. [4]

2.4 SWOT Analysis

Following figure swot analysis example [5]



VectorStock® VectorStock.com/2364595

Fig.2.4.1: swot analysis

SWOT analysis is a valuable strategy for understanding your energy and

For the recognition of both openness, weakness, and both of you and both opportunities open the threat you face

Power:

- Abstract Communication between isolated people by abstract (home and inside the work environment)
- Spontaneously working from home
- An online business set-up
- Collect information

Weaknesses:

- New contestants disparage levels of aptitude expected to survive the market
- Large whole of cash required to set up organizations
- Competition for little affiliates
- Numerous estimating levies and administration choices Opportunities
- Contest new competition disparage the levels of expected survival of the market
- Establish the establishment of a large organization, Majumara's full need
- Contest for Little Little Approved
- Most of the estimates and administration have the opportunity to:
 - evolving the formation of population age
 - The number of UK units of UK is increasing
 - Amendment of the administrative

Threat:

Economic Crisis - The owners of the house expand their further contrast
Broadband subscription is the absence of faith in the advanced market of the
stock market. To understand how far the buyer can understand

2.5 Organizational structure

The following figure shows that the organizational structure of Daffodil computers Limited. [6]



Fig 2.5.1: Shows Organization of Daffodil Computers Limited

CHAPTER 3

Tasks, Projects and Activities

3.1 Daily Task and Activities:

Month 1: I learned limited in the first month of internship at Daffodil computers and performed the following tasks:

- Website and web application testing
- GI Exam

Month - 2: I learned limited in the second month of Internship on Daffodil Computer and did the following:

- UX testing
- Regression testing

Month - 3: I learned limited in the third month of internship on Daffodil Computer and did the following:

- Effective test
- Compatibility test
- Integration testing
- System testing
- Performance Testing
- Access testing
- Test documentation
- Test Management
- QA consultation
- Quality assurance, etc.

3.2 Event and Activities:

- Monitor and maintain computer systems and software
- Set up user accounts, permissions and passwords.
- Problem solving software and setting
- Fixing software error
- Technical support for people using software
- Monitor daily use of admin and software
- Business issues offer IT related software solutions
- Client support
- Field Verification: Check for length, special characters, numerical character etc.
- Error Handling for Inaccurate Inputs or Activities: Check to see if error messages will appear
- Optional and compulsory fields: Compulsory field should not be allowed

Cookies: Check whether cookies are enabling, website use cookies to simulate a continuous connection to that size (it is the piece of information which is sent to the server whenever client establishes the connection)

Framework Testing:

Normally the structure conveys the necessity conveys essentially

- Follow the black box testing
- Performance Testing, Testing Work

Customer appertained test

3.3 Project Task and Activities:

- Acknowledgment testing stage
- It is rely upon the business situation
- Red Box Testing (critical)

Testing Techniques:

- White Box testing – Statement scope, Condition, Decision, Loop, (code scope examination)
- Black Box testing
- Incremental testing

White Box Testing:

- Statement Coverage: Execute all announcements in any event once
- Decision Coverage: Execute every choice course in any event once
- Condition Coverage: Execute every choice with all conceivable result in any event once

Discovery Testing:

- Equivalence Partitioning
- Boundary Analysis
- Error Guessing

String Testing:

- A procedure frequently utilized amid early reconciliation testing
- Demonstrate key utilitarian abilities by testing a series of units that achieve a particular capacity in the application

String Testing:

- A procedure frequently utilized amid early reconciliation testing
- Demonstrate key utilitarian abilities by testing a series of units that achieve a particular capacity in the application

Criteria of Testing Level:

	Entry Level	Exit Level
Unit Testing	Base Code	Logic 100% complete
Integration Testing	Complete Unit Testing	Communication & data flow
System Testing	Complete Integration Testing	ER=AR
UAT	Implementation Software	Deliver to Customer
Regression	Anytime find defect	Solve the defect

Bug Life Cycle:

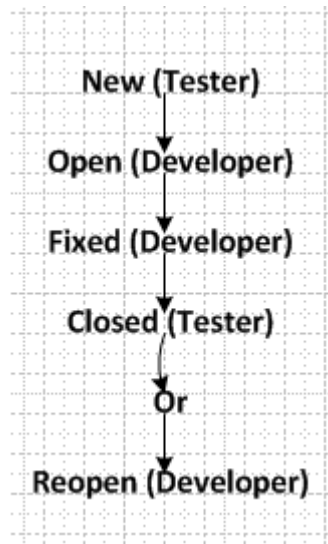


Fig. 3.1.1: Bug life cycle

Defect Tracking: All the failed test execution/imperfections will go under the imperfection following

Defect Tracking Contains:

- Defect ID: Sys_Def_xyz_01
- Test Case ID: Sys_xyz_01
- Defect Description
- Status of Defect
- Reproducible
- Detected by whom
- Assigned to whom

Imitate: If designer requests to repeat any surrender analyzer ought to do that

Use Case Diagram:

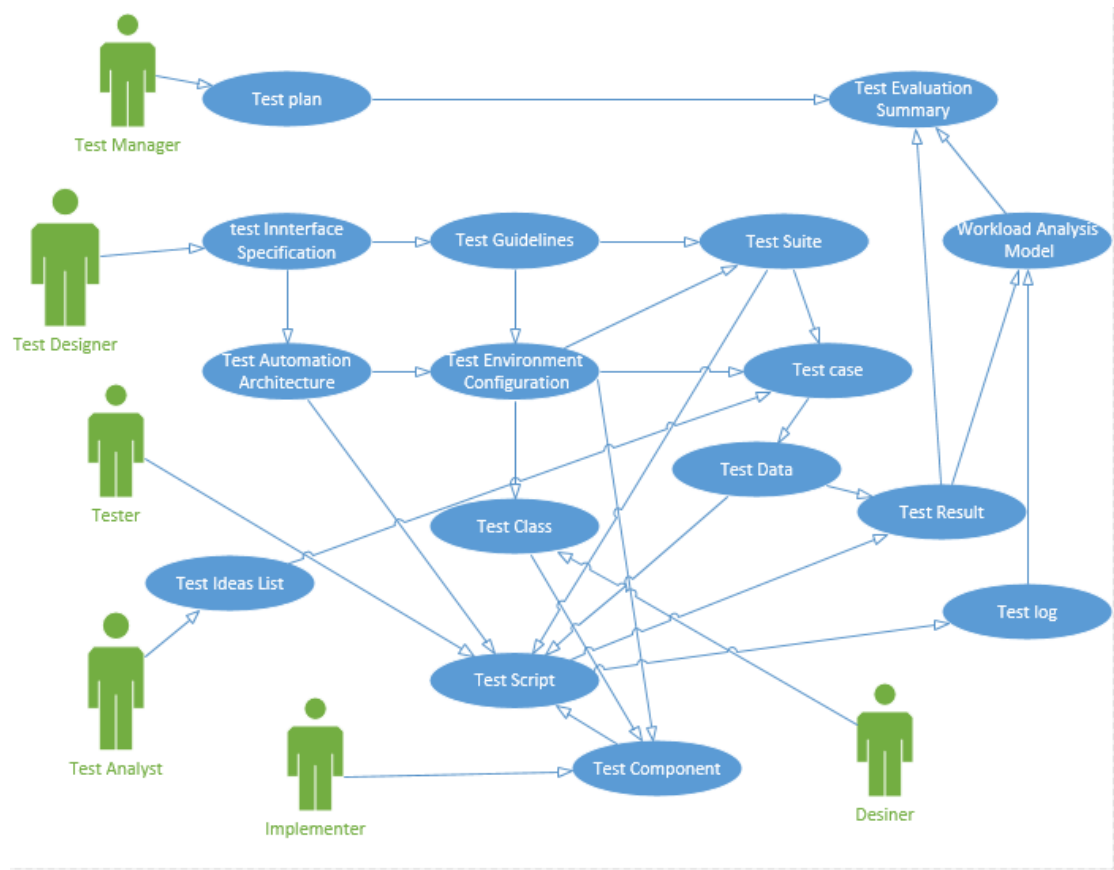


Fig 3.1.2: Shows use case diagram

Testing Using Tools preview:

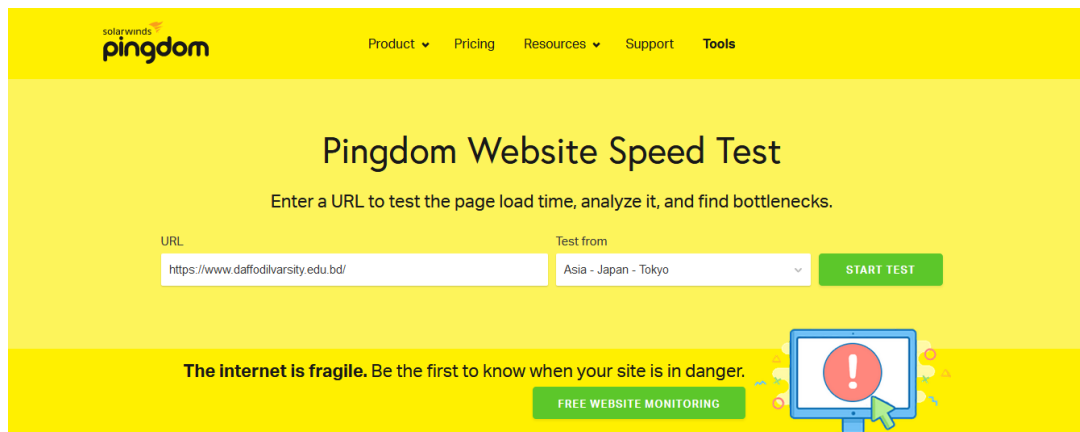


Fig 3.1.3: Shows using testing tools

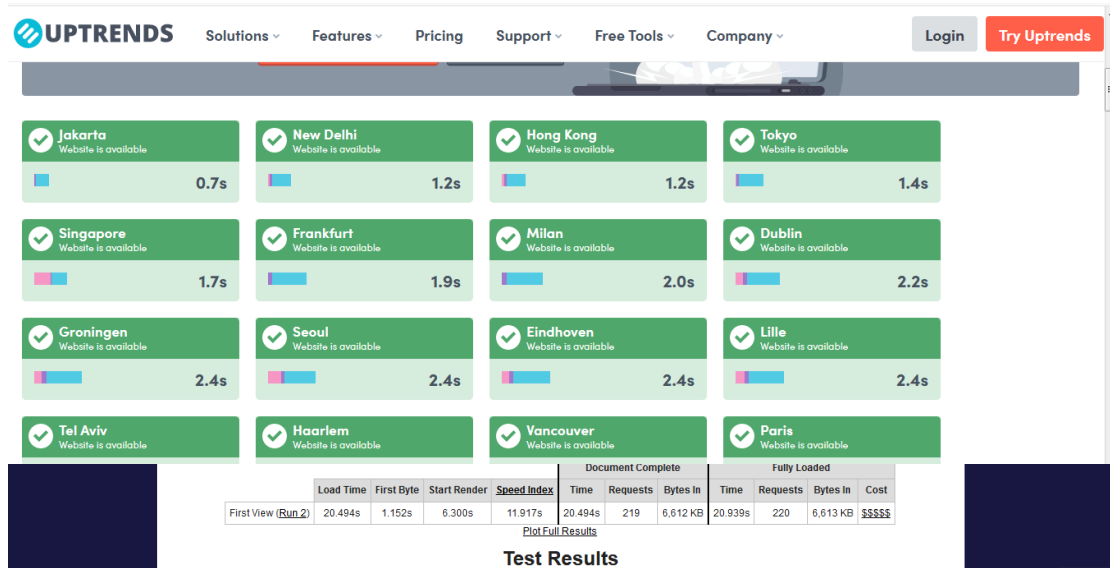


Fig 3.1.4: Shows website availability test

Daffodil International University

Report Generated: October 31, 2018 9:43 PM BDT

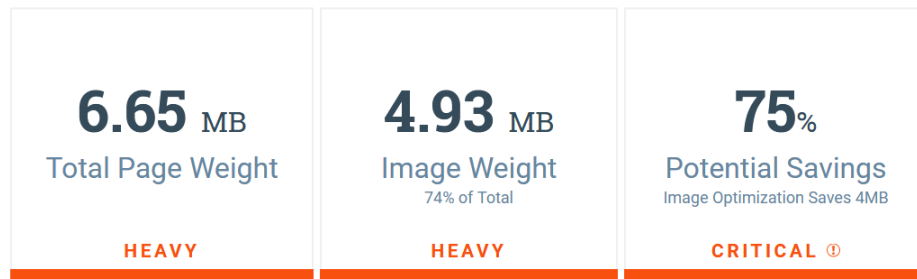


Fig 3.1.5: Shows page weight test

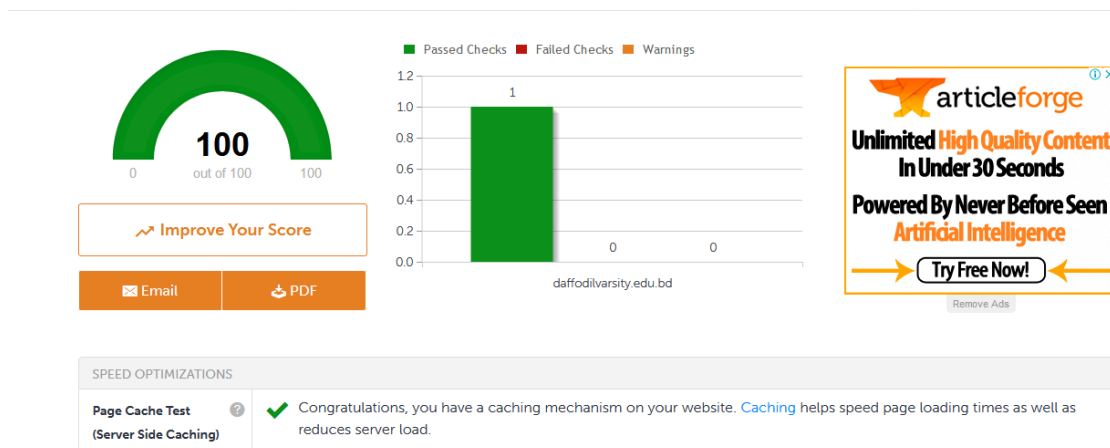


Fig 3.1.6: Shows page cache test

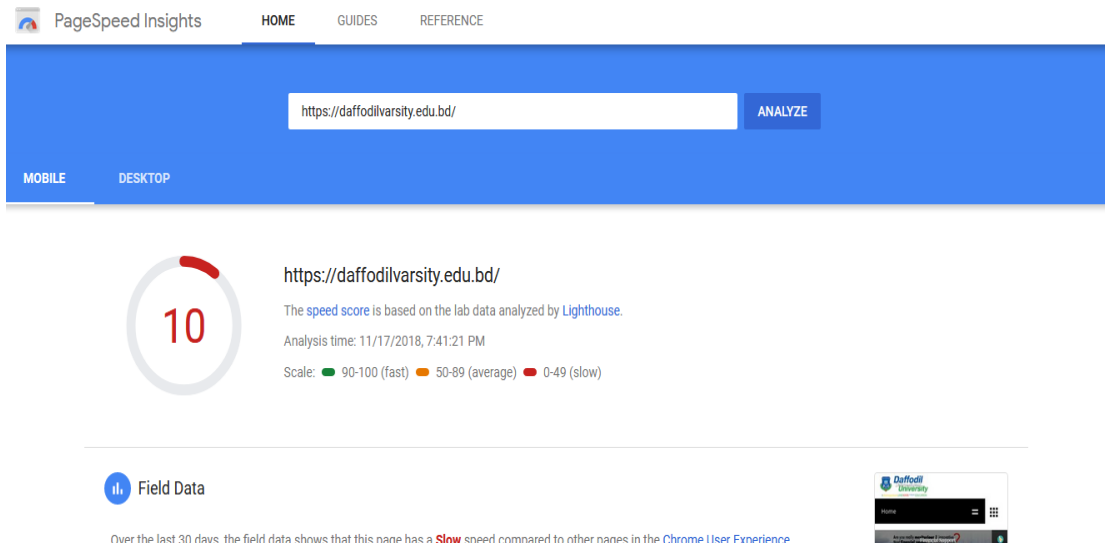


Fig 3.1.7: Shows page speed insight

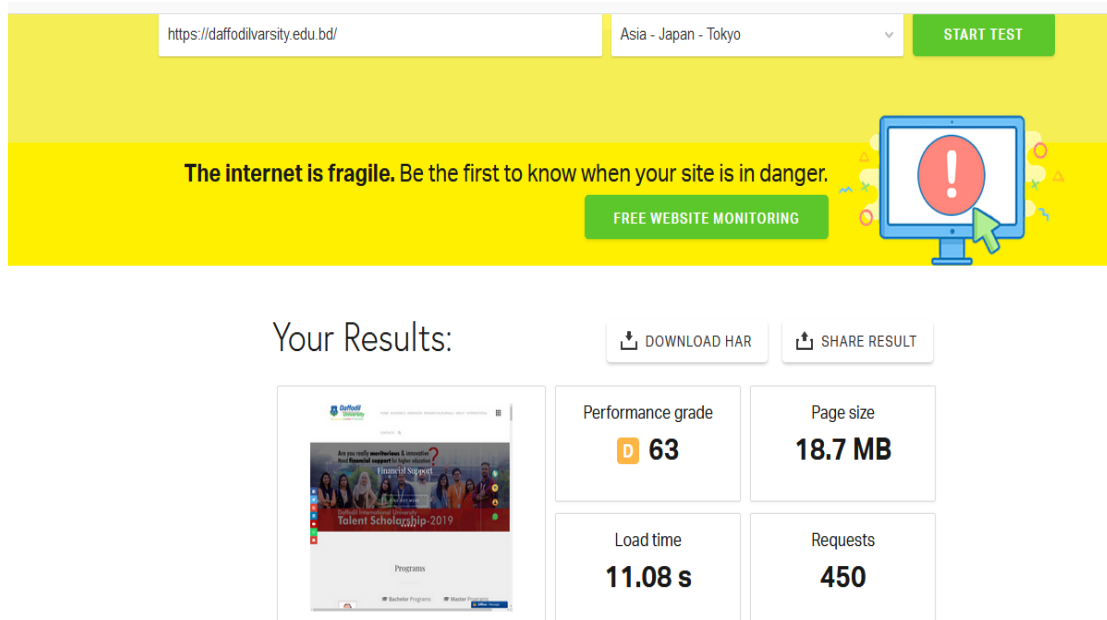


Fig 3.1.8: Shows website performance test

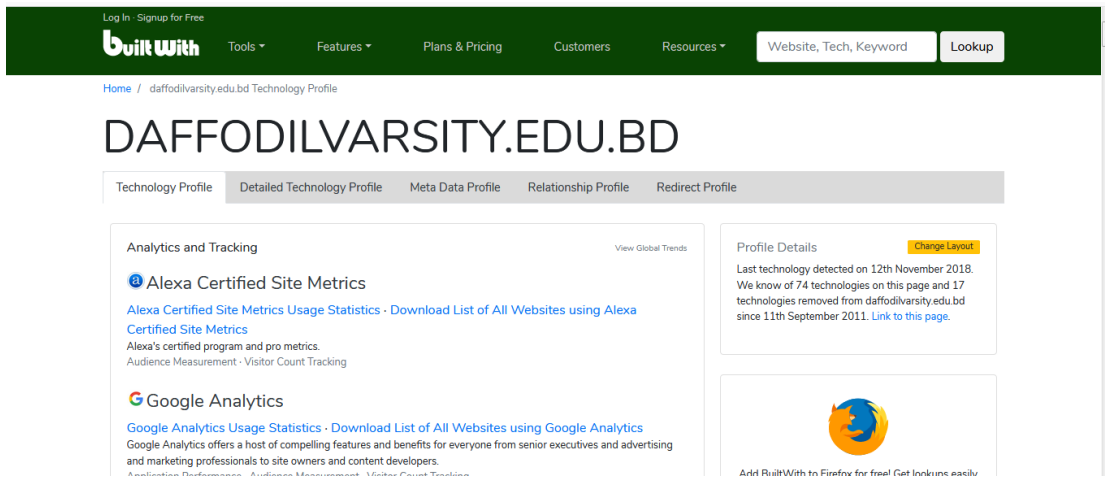


Fig 3.1.9: Shows platform details

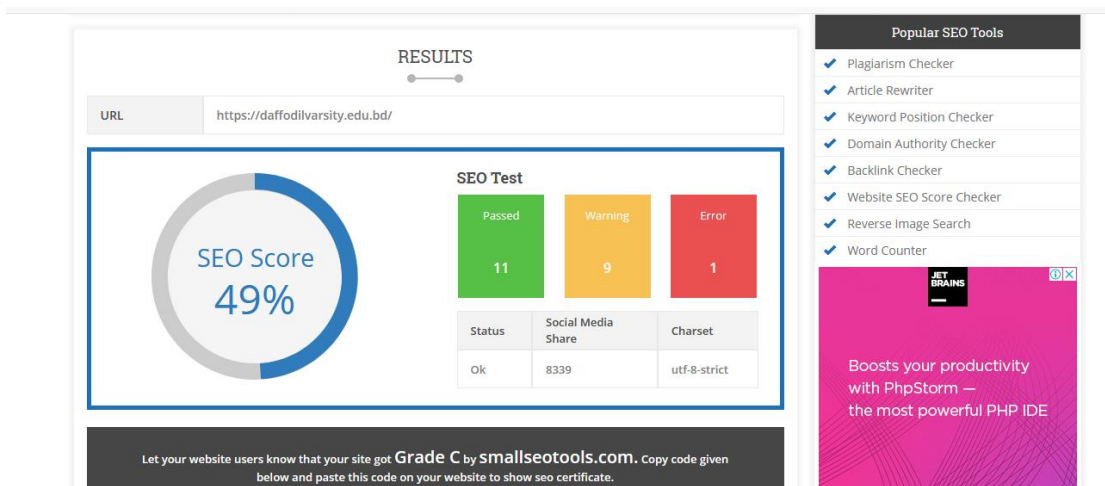


Fig 3.1.10: shows SEO score test

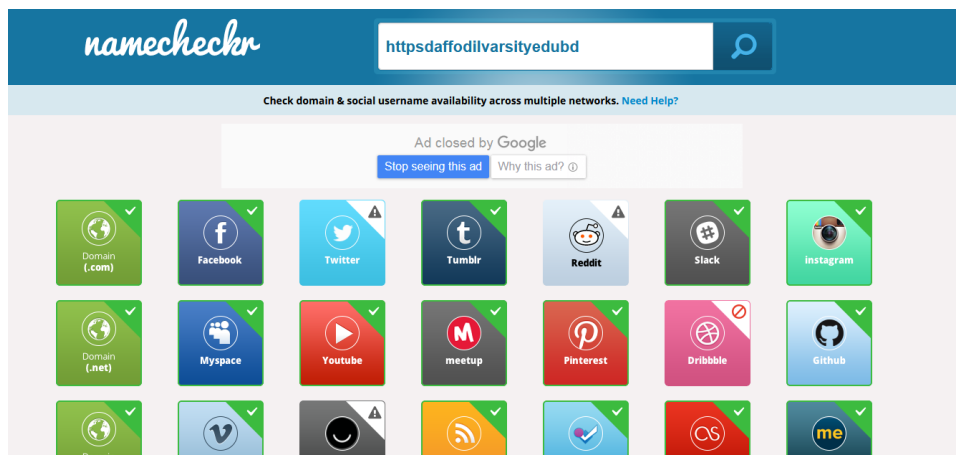


Fig 3.1.11: Shows Social Media Check test

The following figure 3.1.11 shows that daffodil international university [7]



Fig 3.1.12: Shows website Test

<https://daffodilvarsity.edu.bd>

1. Website Status - Yes
2. Broken links - 126 broken
3. Website load time -6.55 s
4. Website platform details - CMS : Joomla, Framework: PHP
5. Mobile Friendliness Testing : 90%
6. Website SEO score – 63
7. Google insight score - 53
8. Google mobile score - Speed :91
9. Google desktop score - 33
10. Website performance-64
11. Google Plus page :Yes
12. Google schema or microdata check : 0
13. Google PageRank : 7
14. Google sandbox : no
15. Meta Keyword: Yes
16. Webpage has no robots Meta tag.

17. Meta Description: daffodil university is an apperceived private university in Bangladesh. Daffodil International University came on 24th January 2002, the University today coalesces impressive modern facilities and a dynamic methods to edifying and research with its proud heritage of accommodation and achievement. It is the top ten Private University in Bangladesh
18. Google Search Results Preview : schematized
19. SEO Friendly URL Test : no
20. Google Analytics Test : yes
21. JS Error Checker: no
22. Bad requests 503 : no
23. Social Media Check :no
24. Compression/GZIP : no
25. Page Cache Test :yes
26. Image Expires Tag :yes
27. Jsminification : no
28. HTML minifier :no
29. CSS minified :no
30. SPF records checker: yes
31. Disallow Directive Checker: yes
32. Nofollow Checker: no
33. Canonical Tag Checker: no
34. Noindex Checker : no
35. Media Query Responsive Test: yes
36. Page Objects: 214
37. Favicon check : yes
38. Website Grade - Performance : D
39. Company Grade : B

40. Mobile screenshot :



Fig 3.1.13: Shows mobile preview

41. Your thought:

This website is not a bad with very medium loading time, Google Plus page, Social Media Check, Meta Keyword, Mobile Friendliness, Media Query Responsiveness, and Favicon; along with lots of positive test results, but there are number of areas the site could do very well for example

- Escalating SEO score
- Improve Google desktop score
- Keep away from broken link
- Reducing CSS & HTML errors.
- Reducing object number to less than 10
- Required to improve Google insight score

- Minifying all the scripts
- Required website compression/GZIP, etc.

These improvements can significantly increase the website visibility on web along excellent customer satisfaction to browse the website.

We highly recommend the website to be more focus on mobile as mobile indicators do not show good results for the domain, which can hurt its SEO ranking, also large number of visitors those who view the website from a portable device.

Software Quality Test:

The following figure quality test: [8]



Fig 3.1.14: Shows software quality Test

Definition:

Testing is a procedure of assessing a framework by manual or computerization implies and confirms that it fulfills indicated necessities or recognizes distinction amongst expected and genuine outcome.

Quality gives consumer loyalty to the first run through and unfailingly. It is the factor influencing an association's long haul execution and enhances profitability and intensity.

Why Testing?

Software testing is imperative as it might cause mission disappointment, affected on Operational execution and unwavering quality if not done appropriately.

Deliver quality programming items; fulfill client prerequisites, needs and desire.

Uncover absconds before the items introduce underway, it can spare a tremendous misfortune.

Test Cases:

Login

Agent	<input type="text"/>
Name	<input type="text"/>
Password	<input type="text"/>

Flight Reservation, Mercury Interactive

Test case Table Format: [9]

ID	Description	Test Cases	ER	AR	Status				
01	Testing "OK" button	Agent Name>4 chars & Password "mercury"	It should accept	Accepted	Pass				
02	Testing "OK" button	Agent Name>4 chars & Password "mercury"	It should accept	Not accepted	Fail				
03	Testing "OK" button	<table border="1"> <tr> <td>0</td> <td>Testing</td> </tr> <tr> <td>4</td> <td>"OK" button</td> </tr> </table> Defects Severity: Critical: It affects all the functionality Agent Name>3chars & Password "mercury"	0	Testing	4	"OK" button	It shouldn't accept	Accepted	Fail
0	Testing								
4	"OK" button								

3.4 Challenges

There are various challenges in the field of internship such as sometimes huge amount of work, sometimes too many work, shy and feel afraid to ask questions.

Sometimes my internship has no work this time I fell boring and this time I passed time by Facebook and sometimes give me so many work. And I completed the works very challenges to me because young worker is busy and cannot help from them that's when I finished the work and feeling good to me.

Afraid to ask questions: There are huge amount of task which is difficult to me but there is very difficult to ask question to project manager. I think this is very important time to me to learn.

CHAPTER 4

Competencies and Smart Plan

4.1 Competencies Earned

Competencies Earned is a verbalization of what a learner is expected to know, understand or be capable of doing as a result of a cognition process. Functional Testing, Regression Testing, UX Testing, adjusting Testing, Integration Testing, System Testing, GUI Testing, Performance Testing, Website & Web Application Testing, Perforation Testing, Test Documentation, Test Management; supplementally, consistent with the cognition outcomes, the Internship On-site supervisors will provide guidance on organizational policies and events.

4.2 Smart Plan

Every company should have a keenly intellectual plan to gain the prosperity. Rudimentally some mundane things of cumulation engender a keenly intellectual plan. That's are elements of specific, measurable, relevant, achievable, and time-based goals

4.3 Reflections

Daffodil Computer Limited started working in 1990. In the previous years, they have recently conceptualized customer advice and time requests, as well as activities and administrative portfolios. They work with many national enterprises and world organizations and are completely preferential. They are used to make recent progress and administration where they need it. They are a highly effective skill collection system suitable for corporate software solution division, technical terms and media transmission.

CHAPTER 5

Conclusion and Future Career

5.1 Discussion and Conclusion

From internship we get many knowledge and future time many practical work help us. We also know that software is capable of being intelligent with the quality of the software, and we know that this practical solution is to cure our cell self-motivation. My Internship basically course based. I maintain internship six days in a week. Every day's duration was three hours. The name of my internship company was Daffodil Computers Limited. I achieved particular experience, every trainer Daffodil Computers Limited are very helpful and friendly. They help me lot. I attend every classes and practical working activities at home. When I face any problem take help in YouTube. In this internship i learn how to build up career in Software Testing Services. It was an excellent experience, and it was finally out!

5.2 Scope for Further Career

- Functional Testing
- Regression Testing
- UX Testing
- adjusting Testing
- Integration Testing
- System Testing
- GUI Testing
- Performance Testing
- Website & Web Application testing
- Penetration Testing
- Test Documentation
- Test Management
- QA Consultanc

Appendices

➤ Appendix A: Internship Reflection

For the primary purpose of a professional setting, apply the knowledge acquired in the classroom to the real solution of real-issues. Learning to master internship skills and how to manage relevant skills and professional settings, new knowledge, skills and skills, and how this plan can be used. Establishing a network with other professional supervisors and professional relationships. I look at the behavior of clients and professionals in order to communicate with the area of sincerity, with modest and professional supervisors and other employees as well as professionals and relationships. To fulfill my internship obligations, I'm practicing right business ethics. I am implementing an organization's perspective, how to communicate with social people, how to share power, how it is formed, how to make decisions, how the organization's professional culture can be understood and how many responsibilities and responses to the organization can be understood. My Internship Supervisor provides an opportunity to take a professional opinion with an assessment of ongoing and internship experiences running through character meetings.

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