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CHAPTER 1

1. Introduction

1.1 Preamble

Internship is the process of on-the-job training, which particularly beneficial for students with major in technical courses.

Institute of Information Technology (IIT) provides that glorious opportunity to their students of having an internship within their bachelor program.

IIT always emphasize on industry orientation in academic study. For these purpose industry people are invited to IIT to talk about their companies and experiences, often some technical courses are entirely conducted by them. The six month internship program is another, possibly most effective, way of achieving industry orientation.

Internship helps the students to link-up their academic experience with industry practices. I have tried my best to combine the both together. I hope I am successful, the future semesters of my degree will prove the fact of success and failure.

The company I was sent for internship is Kaz Software limited. It is one of the leading software companies in Bangladesh.

1.2 Objective

This report has been prepared as a requirement of the internship program of the degree BSSE. The report is intended to reflect my achievements, project involvements and professional growth during the intern period.

1.3 Scope

This report gives an insight of the experience that I faced in my workplace at Kaz Software. As well as it also provides a brief description of Kaz Software for students who are interested about Kaz for their professional growth.

CHAPTER 2

2. Company's Profile

KAZ
software

2.1 About Kaz Software

Kaz is a custom software company in Bangladesh [1]. It started as a start-up software outsourcing company in 2004 and it became a limited company in 2005 and have been growing every year. It finds technical solutions for the clients. Typically this would mean it builds software products for the clients, but sometime it would be doing something completely different like researching business data or setting up their firewall.

It has a group of designers, engineers and content specialists. Together they form one of the leading custom software companies in Bangladesh for software development outsourcing. It offers software and content management services to international customers across multiple industries. It understands the challenges that its customers face within and across these industries. It provides practical, pragmatic and powerful solutions to address those challenges. Getting software out to its users is the single goal that drives Kaz. It's mix of skills and talent means it has everything to meet that goal in one place. Design, development, content, testing, deployment and anything in between those clearly defined roles - Kaz cover it all.

Figure 1: Logo of Kaz Software Limited

2.2 Services

In today's world, every organization depends heavily on technology to keep business operations connected, drive revenue and support ever growing customer demands [2]. Undoubtedly, Information Technology (IT) is the key to manage technology and it spans wide variety of areas that include but are not limited to things such as computer software, information systems, programming languages, database management systems, networking etc. Keeping these in minds Kaz Software provides an impressive tally of services and solutions. Kaz Software provides the following services that are described below:

2.2.1 Ideation, Graphics and Interaction Design

Kaz Software design teams help its clients through the digital design and strategy maze [4]. It works through the early stages of a project with its clients. Starting with brainstorming ideas to shape a vision, it helps the clients with mockups, demos and presentation to express their ideas.

When they are ready to make that vision a reality Kazians work out the details - drawing and re-drawing ideas into real software interfaces. Kazians can produce each and every element of the graphical interface or can collaborate with external design teams to bring disparate elements together to tell a single story. But interaction design is Kazians passion. It is one place Kazians never compromise. There is only one option for software interfaces: simple. Over the years we have become very good at this art of making the complex simple.

2.2.2 Software Development

Kaz Software teams help the customers build custom software - everything from web to desktop to enterprise to mobile and beyond [3]. Kazians have worked with many technology platforms and have collaborated with many teams over these years.

Its clients get a team of their own – it is as simple as that. There is no red tape – the team adapts to the working process of the client and are there as one of their own.

2.2.3 Software Quality Assurance

Great design and development goes nowhere without great quality. Its integrated quality assurance approach incorporates all aspects of agile and lean development with the stability and reliability of traditional SQA process [5].

It believes software quality assurance is only possible with a mixed set of procedures which should involve all members of the team collaborating with a dedicated team of SQA professionals.

It follows Agile SQA recipe every day to complete QA.

➢ Micro Tests at the developer's desk
➢ Integration tests at the SQA desk
➢ UAR at the user's desk
➢ Regression at the automation server

Because of the involvement with all kinds of projects its SQA teams are exposed to a variety of technology and business domains. This helps Kaz to provide unique resources bringing in skills, experience and ideas from very different sectors.

2.2.4 Data, Content and Research

Once the software is done, content is king [6]. It understands this need and helps the customers building up their content. Its research teams have researched, compiled and maintained content in diverse fields and for a variety of applications.

The research team is supported by data specialists who leverage technology to optimize data gathering and ensure that the data is stored and managed efficiently. The data team is also key for services for sifting, extracting and adapting data from various sources and making that usable for the software teams to show within the product. It provides the following services

➢ Research and compile information & Categorize existing content
➢ Search and collect publicly available documents
➢ Professional domain based translation of information

➢ Statistical and economic analysis & News gathering and summarizing

➢ Create and maintain structured content like spreadsheets

➢ Maintain newsletters/news services

2.3 Location and Physical Layout

Kaz office is at Eskaton Garden, Dhaka. The complete address is:

28/1 ESKATON GARDEN,

DHAKA 1000,

BANGLADESH

Figure 2: Office building of Kaz

- Kaz office is situated in a residential area rather than an industrial area. So the employees work in a domestic environment in Kaz.

- The office consists of two buildings, "Nirvana" and "Nx2"; the first two floors of the buildings are hired for operating the office.

- Both of the buildings have similar construction layout. They have a large balcony in each floor which is used for the refreshment of the employees.

- The compound in front of the house is used for playing games like cricket, badminton, etc.

- There are several rooms at each floor which are of different size and layout. Number of employees in each room depends on the size of the room.

- There is one huge dining room with beautiful decoration.

- Prayer room is also available.

2.4 Human Resource

Kaz has 50-60 employees at this moment and they are planning to recruit more. Since the beginning, Kaz has grown in number of resources and production every year.

Kaz doesn't hire developers, designers or QA engineers; Kaz hires people who solve problems. And it hires only the best. Kaz runs regular training and review sessions to keep it on the top. And the culture of constructive criticism, learning and sharing expands Kaz horizons and keeps it level headed.

2.5 Industry Experience

Kaz has been building software for various industries since 2004. Kaz has worked with many technology platforms and has collaborated with many teams over these years.

Clients get a team of their own – it is as simple as that. There is no red tape – the team adapts to the working process of the client and are there as one of their own.

Kaz dev center is based in Bangladesh and costs are typically less than 30% of similar service costs in the West.

The industries Kaz has been involved with are –
- Tax and accounting
- Publishing
- International Trade
- eCommerce & Auctions
- Social Network
- Entertainment
- Mobile Applications
- Engineering

2.6 Development Skills and Experience

Kaz Software has wide experience both in development platforms and business domains [3]. It does not specialize in particular technologies, but it has definitely proficient and experienced with a wide array of tools and systems.

Every product is unique and it tries to fit the right team with the right skills for that particular product. Its teams have worked on web applications, created desktop applications and built numerous mobile apps.

Some of things that we have built:

- ➢ Social app with localization
- ➢ Large financial content portal
- ➢ Desktop based tax optimization tool
- ➢ Corporate data management application
- ➢ Document repository
- ➢ Database driven file system
- ➢ Content rich web application
- ➢ LDAP management tool
- ➢ iPhone/Android/Windows mobile applications
- ➢ Online holiday management tool
- ➢ Location content service
- ➢ Location based social app platform
- ➢ Flex based Visio like diagramming tool
- ➢ Desktop based diagramming and layouting tool.
- ➢ Symbian application
- ➢ VoIP billing solution
- ➢ Mobile content solution
- ➢ Stock trading portal
- ➢ International trade research and management tool

2.7 Tools and Frameworks

Over the years Kazians work with many tools and technology [3]. Some of those are given below.

.NET & MICROSOFT WORLD

- WCF
- WPF
- Silverlight
- LINQ
- LINQ To SQL
- ADO.NET Entity Framework
- ASP.NET MVC
- Microsoft Enterprise Library
- PRISM
- MEF/Unity
- Nhibernate
- Sprint.Net
- Sorry
- Spring.net
- Sharepoint

PYTHON WORLD

- Django
- South
- Celery
- Tornado
- THIRDPARTY FRAMEWORKS
- Selenium Webdriver

- Various PDF frameworks
- Various control libraries
- OCR SDKs
- CrystalReports

JAVA WORLD

- JSP
- JSF
- JPA
- Hibernate
- CDI
- JAX-RS
- RESTEasy
- Spring
- Seam
- Maven
- GWT
- Wicket

SERVERS ETC.

- JBoss AS
- Tomcat
- Nginx
- IIS
- Endeca

CLOUD

- Amazon AWS
- S3
- Rackspace
- Heroku
- Windows Azure

DATABASE AND NOSQL

- MS SQL Server
- MySQL
- MongoDB
- Couchbase
- Neo4j

JAVASCRIPT UNIVERSE

- jQuery
- jQuery UI
- Node.js
- AngularJS
- Ext JS
- Knockout.js
- RequireJS

- jQuery Mobile

WORLD OF WEB

- Html 5
- CSS 2
- CSS 3
- THE XML GANG
- XSLT
- XPath
- XSL-FO

MOBILE SPACE

- Objective-C
- Cocoa
- Cocos2d
- Titanium
- Phonegap
- jQuery Mobile
- HTML5
- Android
- Windows Mobile

2.8 Facilities for Employees

According to two factor theory of job satisfaction, salary is just a hygiene factor. Motivation factors are important for high productivity. Kaz provides several facilities for the employees.

2.8.1 Domestic Environment

Kaz is like one big family. All the current and ex-employees are members of this Kaz family. Work is fun here. Employees consider the company to be their own responsibility.

2.8.2 Lunch and snacks

The employees are provided by lunch from the office. Also, there is tea, coffee and snacks available all the time.

2.8.3 Indoor and outdoor games

The Kaz compound is dedicated for outdoor games like cricket, badminton etc. Also, one of the balconies is equipped with indoor game tools like carom, dart etc.

2.8.4 Recreation

Kaz has different ways for recreation of employee. Release parties, picnics, 'Hudai party', outings are part of it. Employees are taken out of the country for anniversary of Kaz every year.

I am sure these are only a small fraction of the facilities available at Kaz. In spite of being an intern, I received all these facilities and consider myself lucky.

2.9 Office Schedule

Office starts at 11:00 am and ends at 7:00 am, from Sunday to Thursday. There is a 1:30 hour break from 1:30 pm for lunch and sports.

2.10 Culture

Kaz has a great working environment with a rich culture of fun and professionalism that attracts the best talents [7]. Cultures that I have found in Kaz Software are discussed below:

2.10.1 People

Kaz don't hire developers, designers or QA engineers, it hires people who can solve problems. And it hires only the best [7]. It runs regular training and review sessions to keep employee on the top. And its culture of constructive criticism, learning and sharing expands our horizons and keeps employee level headed.

2.10.2 Culture of fun and creativity

Kaz believe in the simple principle that creative work requires a special kind of work culture. Kazians are very careful to maintain a culture that helps attract talented people and helps them achieve their best performance [7]. This culture starts from work place structure to operating principles of the development teams.

Kaz has a great working environment at our office space "Nirvana" and "Nx2" totally custom designed for a software development company. From color selection to furniture orientation Kazians have been very careful to create an environment that actively enhances the knowledge exchange and collaborative nature of our work.

2.10.3 Culture of fun and passion

There is no doubt that there is something wrong with Kaz - but in a good way. Kazians are always obsessed with something [7]. The object of obsession changes over time, sometimes is just a new programming trick that someone has found, or sometimes it's a game that we are playing. People outside of Kaz point these out as signs of our insanity. But Kaz proud of them.

Figure 3: Fun and Passion

2.10.4 Sports

Kazians are just crazy about cricket - the game we inherited from Kazians colonial past [7]. Every year in May it has Kaz premier league (KPL) game and every one goes crazy preparing for the games or buying players or betting on outcomes. There are huge parties on the final day. This is Crazy but great fun.

2.10.5 Working Environment

Kaz has a great working environment at the office space, totally custom designed for a software development company. From color selection to furniture orientation it has been very careful to create an environment that actively enhances the knowledge exchange and collaborative nature of work.

Figure 4: Work Environment

2.10.6 Helping the Community

Kaz is involved with many efforts in helping the community around us. One its big long term project is a partnership with an organization called "Prothom Shurjo" that helps street children in the area near us by arranging education, food and shelter for them. They also run various training programs for them to teach them skills that they can use.

Figure 5: Helping the Community

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2.10.7 Joining Party

When a group of freshers are recruited at Kaz, they throw a party for everyone. Being intern, I was not treated as fresher, so I did not have to give a treat to all.

2.10.8 The Mega Event

Every year, the company arranges a tour for the employees. This is the Anniversary Trip of Kaz.

Figure 6: Trip to Bangkok

CHAPTER 3

3. My Project Involvement

3.1 TPA (Transfer Price Analyzer) Publisher

Transfer Pricing Analyzer enables tax professionals working on transfer pricing issues to quickly research a range of rules from multiple countries, make comparisons and draw initial conclusions, and create reports and memoranda to document transfer pricing issues impacting their entities around the world.

3.1.1 Overview

TPA Publisher is an internal project of Kaz. It is maintained by Kaz content team who keep the database up-to-dated.

When I joined Kaz, approximately 90% features were complete. So, the QA team was very active and bugs were being reported. I was assigned to fix some of the given bugs. I was not involved with this project for a long time. My involvement was for about 2 weeks, after that the project was completed and deployed.

3.1.2 Team

I was assigned with my IIT senior Md. Rayhanul Islam (BIT-0203) for the project. He gave me instructions so that I could understand the project in short time and also assigned me the bugs to be fixed. Without his helpful mentoring, I could not be involved with the project successfully.

3.1.3 Technologies

When I was told that I need to work on this project, I asked Rayhan Bhai which technologies I need to learn to work on this project. He gave me a list of technologies and I learned them.

- extJs
- Regex
- LINQ
- SQL query
- JQuery

3.1.4 Solved bug & developed features

I have already said that I mainly solved bugs in TPA Publisher. Some of these are listed below:

- ➢ The publisher only accepted date format for added items, but in some cases user needed to provide only year except the actual date. So this kind use case were failing test and needed to be fixed.
- ➢ The previous case was also creating problem while adding items from excel file, adding item using form or editing item. So all this paths needed to be considered for the fix.
- ➢ There was a ck editor for editing descriptive text. The publisher had a functionality which identified specific keywords in the inputted text in the editor and converting the matched text words to link. There was a bug while finding and converting the matches. Some of the matches could not be matched because of html and text view difference. For example: "Ghent Court of Appeal" could not be matched with "Ghent Court of Appeal". There were similar issues. So this bug was assigned to me. I identified the critical cases and used regex to fix them.
- ➢ There was also a problem with session which was fixed me

3.1.5 Advantage of bug solving

As intern I always ask myself which technologies or which areas I like most and want to be familiar with new technologies and new programing languages. Bug solving is the best way which provides me the opportunity to familiar with more tools and more Technologies due to spontaneous switching from one project to another. As a result I learn more things from bug solving.

3.1.6 Challenges

The main challenge for me was that I just joined Kaz and had little idea about industry projects. And this project was almost a complete project which I needed to understand in a short time all by myself. As I was assigned to fix bugs, I needed to have clear knowledge of the operations inside so that I could figure out the wrong logic there and correct it. It was a real challenge for me.

3.2 Confidential Web Application

I have been working in a web application for most of my internship period. But I cannot mention its name or concept because I have signed non-disclosure agreement (NDA). However I am sharing the technologies I have been working on here.

3.2.1 Overview

The web application is a large one. It has 3 sub-parts and each part is being developed in parallel. I have been involved in all 3parts and realized how large an industry web application can be.

3.2.2 Team

In this project I have been directly supervised by my team member, Nur-a-Shawal Siddique. He is an experienced senior software engineer and I have learned many things from him. From designing software architecture to using software tools effectively, he has taught me everything. I consider myself very lucky to get such a mentor and supervisor.

As this is a huge project, most of my team members have been working on it. Till now, 5 of my team members have been involved with it and I have assisted 4 of them.

3.2.3 Technologies

The technologies I have been working in this project are –

- C#
- JQuery
- JQuery-UI
- AngularJS
- KnockoutJS
- Entity framework
- MSSQL & Store Procedure
- Bootstrap
- LINQ
- Google Charts API

3.2.4 Solved bug & developed features

As I have already mentioned, the application is a huge one and there are uncountable number of features. I can happily say that many of the features have been developed by me in the supervision of my supervisor. For Example –

- ➢ Statistical reports
- ➢ Google chart
- ➢ Excel report download
- ➢ UI development
- ➢ Pagination

And many more conceptual functionalities that I can't share because of the NDA.

I have also been involved in bug fixing. The QA member of my team is super active and doesn't let us, the developer's breathe peacefully until we fix his identified bugs!

3.2.5 Challenges

This project is the largest project of my life and may be larger than the combination all the projects I have done till now. I have learned many things while working on it and at the same time faced many challenges. The main challenge was to understand the concept and domain of the project. It was also a challenge to learn new technologies and apply them properly. I would again like to thank my supervisor for helping me to overcome these challenges by his guidance.

CHAPTER 4

4. Professional Growth

4.1 Technologies and Tools I Learned

As stated before, Kaz works in multiple platforms. But the team I had been assigned works in windows platform. Therefore most of the things I learned are Microsoft and its sister technologies.

In Bangladesh the culture of pirated culture has been very popular. Most of us are used to use pirated or limited versions of Microsoft software and technologies. Those are either virus affecter or provide limited features. At Kaz, I have used most updated and registered versions of Microsoft software.

4.1.1 Tool

Programing tools make development easier. In my intern at Kaz Software I have used the following tools in my daily works.

- ➢ Visual Studio 2012 & 2013
- ➢ SQL Server 2012
- ➢ SQL Server 2012 Management Studio

4.1.2 Technology

4.1.2.1 ASP.NET

ASP.NET is a web application framework developed by Microsoft. ASP.NET is a successor of Microsoft's ASP technology.

Java had been always my favorite. However, the truth about software engineers is: the best are not those who have mastered some technologies very well, best are those who can learn new technologies faster. ASP.NET is the most notable technology I learned at Kaz.

ASP.NET is a huge framework. There are many subsections of this framework. One single requirement can be fulfilled in many ways. I have learned a few of them.

- MVC-4

MVC is a framework that lets the programmers develop web applications in a model-view-controller architecture. MVC-4 is the a version of ASP.NET.

- Entity Framework

Entity framework is a popular ORM of the ASP.NET framework. Entity framework comes with code-first approach which makes the database design really simple.

- jQuery

jQuery is a cross-browser JavaScript library with the idea of write less get more. jQuery is used by over 49% of 10,000 most visited websites.

- SQL Server

SQL server is the database which is most easily compatible with ASP.NET. I did not try to dig deep in SQL Server because database is not my point of interest. But basic knowledge of database is essential for software developers; I have tried to learn as much I needed.

- Microsoft Visual Studio

Visual Studio (VS in short) is the IDE for ASP.NET and many other Microsoft technologies. VS is one of the most powerful IDEs ever built. I was provided by Microsoft Visual Studio 2013. I hope I have made good use of it.

4.1.2.2 JavaScript Frameworks

In IIT I have used raw javascript. After joining Kaz I learned to use some javascript frameworks. This was really a great experience for me.

- AngularJS

AngularJS is an open-source web application framework, maintained by Google and community, which assist with creating single-page applications, one-page web applications that only require HTML, CSS, and JavaScript on the client side. Its goal is to augment web applications with model–view–controller (MVC) capability, in an effort to make both development and testing easier.

- KnockoutJS

Knockout is a standalone JavaScript implementation of the Model-View-ViewModel pattern with templates. The underlying principles are therefore:

  i.   a clear separation between domain data, view components and data to be displayed

  ii.   the presence of a clearly defined layer of specialized code to manage the relationships between the view components

The latter leverages the native event management features of the JavaScript language.

4.2 Development Technique, Pair Programming

In the internship period I paired with some of my seniors in different times. As I was new to the some technologies we were supposed to use, I always had a lot of questions. Therefore, I could clear my confusions while working with them and learned the technologies quickly.

While working as pair, we used to work in a way, when my partner was typing I was assisting him, giving him ideas and checking for mistakes; when I was typing my partner was giving me instructions.

Here in Kaz, I learned that this is actually an agile programming technique known as Pair Programming.

"Pair programming is an agile software development technique in which two programmers work together at one workstation. One, the driver, types in code while the other, the observer (or navigator), reviews each line of code as it is typed in. The two programmers switch roles frequently."

In Kaz pair programming is done most of the time and it works as a real technique. Although pair programming is not suitable in all situations, I believe some situations are most perfect situation for paired programming which are recognized by my experienced team members.

4.2.1 Benefits and Costs of pair programming

Some studies suggest that pair programming produces software with less number of bugs than software developed alone. Reduction in defect rates of 15% to 50%, varying depending on programmer experience and task complexity. Pairs typically find more design alternatives than programmers working alone, and arrive at simpler, more-maintainable design; they also catch design defects early. Pairs usually complete work faster than one programmer assigned to the same task.

However, some other studies suggest that pair programming is not uniformly beneficial or effective because although it produces faster, the total programmer time in pair programming is usually higher than that of programming alone.

4.3 Professional Learning

Although technical learning is important, professional learning is the sole purpose of an internship. Kaz is an excellent place to learn professionalism.

4.3.1 No bullying and blaming

Software development is always a team work. And when there is a team work, misunderstanding is very usual. This is true for Kaz too. However, I have never seen team leaders and project managers to bully people working under their supervision. Personally, I have made a lot of mistakes last in five months. But my project manager had never been harsh with me.

This practice is really effective to keep the work environment healthy. Blaming others for their mistakes does not solve the problem. It only makes the situation and the relationship between coworkers worse.

4.3.2 Do your work yourself

At Kaz, there is no one to take orders like, "do this work", and "do that work". Everyone is assigned to a particular work and he does his work in his way. At time of scrum everyone shares their progress to others. All the projects are done in this way.

4.3.3 Appreciate success, do not discourage for failure

In Kaz appreciation for success is a real trend. The team I have been assigned to has taught me the value of appreciation. Here, the members appreciate each other on their successful contribution to the company and also on their success in some other fields.

4.3.4 Attitude

Kaz is a Software Studio with full of fun and creative and Kazians are very much friendly. As an intern these attract me very much and I always try to follow them to be a successful Software Engineer as well as a successful man.

4.3.5 Quality of work

Kaz Software follows a great standard of pure software engineering and their product quality is very high. Time to time code is reviewed so that better quality software is developed. I tried to maintain the standard of work from my side.

4.3.6 Negotiation

Negotiation is an important part of software engineering. At Kaz I have had practical experience of negotiation. We, the developers here, negotiate with our project manager quite often here. I also had such an experience and could create an win-win situation.

4.3.7 Planning

Before starting a task I had always planned that how should I approach towards it. Though those plans only included me, at least I can say that I am habituated with planning.

4.3.8 Organizing

One of the best ways of learning how to organize is to start organizing oneself of his/her own and after spending almost six months at Kaz I should say that I am a much more organized person only by practicing that principle. And now being organized myself, I can say that I am ready to organize others.

4.3.9 Attendance and Punctuality

Punctuality is another important issue in professional life. I have to go office at 11:30 to attend scrum. But at every Tuesday I have to be there before 11 for attending Team meeting. This practice helped me to increase my level of punctuality and I was present in approximately 99% workdays.

4.4 Self-Assessment

4.4.1 Attitude

1. Definitely not interested
2. Somewhat indifferent
3. Average diligence & interest
4. Very interested & industrious
5. Very enthusiastic ✅

I joined Kaz at an intern to learn and apply my knowledge. So I always had an attitude to be involved more into the project and be beneficial for both myself and the company. So, from my point of view, I have always been enthusiastic in my work.

4.4.2 Ability to learn

1. Very slow to learn
2. Rather slow in learning
3. Average in understanding work
4. Learned work readily
5. Learned work exceptionally well ✅

At Kaz, I have got very nice and friendly mentors and supervisor who taught me really well. They were never annoyed to answer even to my stupid questions. And at the same time, I could catch everything that they have been telling me. So, I would say, I learned at Kaz really well and I would like to thank my teammates for that.

4.4.3 Dependability

1. Unreliable
2. Sometimes neglectful or careless
3. Usually dependable
4. Above average dependability
5. Completely dependable ✅

After joining Kaz, I was first assigned to an internal project first, and when my team leader found me sincere to my work, he assigned me to a large client project. I also had to sign NDA with the client to work on the project. I was assigned to the project of course because my team lead found me dependable. Now, I am trying hard to keep this reputation in Kaz.

4.4.4 Initiative

1. Must be pushed frequently
2. Hesitates
3. Does all assigned work
4. Goes ahead independently at times
5. Proceeds well on own ✅

The works of Kaz flow in a form of tickets created in team foundation server of VS. Every ticket is assigned to the appropriate person. So, the person need not be pushed to work on that ticket as he/she sees the tickets to be pending in his/her name. It is true for me also. Till now I have completed around 60 tickets in my last project.

4.4.5 Quality of work

1. Very poor
2. Below average
3. Average
4. Very good
5. Excellent ✅

I have been told many times by my supervisor that my quality of work is good. I would say the reason behind this is some courses of IIT like design pattern, which taught us to generate clean code.

4.4.6 Relations with others

1. Works poorly with others
2. Has difficulty working with others
3. Gets along satisfactorily
4. Works well with others
5. Exceptionally well accepted ✅

Participating in the different parties arranged by Kaz Software Underground, such as: Hudai party, Joining Party & Leaving Party and playing Carom help me to build a friendly relationship with others

4.4.7 Maturity-poise

1. Brash
2. Seldom asserts him/her self
3. Average maturity and poise
4. Has good self-assurance
5. Quite poised and confident ✅

I have always been confident about myself that if I try to do something, I will succeed. And IIT also triggered this confidence in me by giving proper guidance and direction.

4.4.8 Quantity of work

1. Low output, slow
2. Below average
3. Normal amount
4. More than average
5. Unusually high output ✅

As I already mentioned, in my last project I have completed around 60 tickets. The amount is really huge for an intern and even for some full-time employee.

4.4.9 Judgment

1. Consistently uses bad judgment
2. Often uses poor judgment
3. Usually makes the right decisions
4. Above average in making decisions ✅
5. Exceptionally mature in judgment

I didn't have much chance to make decisions in Kaz. But I took the decisions of my own works like – prioritizing the assigned tasks, implementation details and sometimes functional behavior of the software feature.

4.4.10 Overall Performance

1. Outstanding ✅
2. Very Good

I would say my performance was outstanding in Kaz. Because, in this 5 months I have become a trusted body for my co-workers. They find me to be dependable and rely on me.
The responsibilities assigned to a person can define his/her performance. And I have got many responsibilities towards my project and my co-workers. This expresses my performance at Kaz.

CHAPTER 5

5. Conclusion

The internship program helped me to gain important knowledge on software industry, their culture, work environment and all about software development.

Participating in weekly team meeting with CTO, Project manager and other team members and discussing on the threats of the projects helped me attain the faith to develop a never give up attitude. At the same time it helped me learning the software life cycle used in software industry and inspired me to be striver, responsible and confident.

The internship program has increased my team work capabilities as well as respect to the team mate's ideas and suggestions. Team discussions like brain storming sessions helped me identify and solve numerous problem issues which would have been impossible to solve otherwise.

I would like to convey my thanks to IIT, DU for providing me an opportunity to gain idea of the competitive environment in the professional field. It has certainly lifted my software development skills in terms of design and coding. I now look forward to facing the upcoming challenges of the world.

CHAPTER 6

6. References

KAZ
software

[1] info@kaz.com.bd "About Kaz Software" [Access: May 5 2013] online: http://kaz.com.bd/

[2] info@kaz.com.bd "Services of Kaz Software" [Access: May 14, 2013] Online:
http://kaz.com.bd/services/

[3] info@kaz.com.bd "Software Development" [Access: May 7 2013] Online:
http://kaz.com.bd/services#softwaredev

[4] info@kaz.com.bd "Ideation, Graphics and Interaction Design" [Access: May 9 2013] online:
http://kaz.com.bd/services#design

[5] info@kaz.com.bd "Software Quality Assurance" [Access: May 11 2013] online:
http://kaz.com.bd/services#sqa

[6] info@kaz.com.bd "Data, Content and Research" [Access: May 12 2013] online:
http://kaz.com.bd/services#research

[7] info@kaz.com.bd "Company Culture" [Access: May 15 2013] online:
http://kaz.com.bd/company-culture/

[8] "Single Page Application" [Access: May 16 2013] online: http://www.asp.net/single-page-application

[9] "jQuery" [Access: May 18 2013] online: http://jquery.com/

[10] "jQuery UI" [Access: May 19 2013] online: http://jqueryui.com/

[11] "LinQ" [Access: May 3 2013] online: http://code.msdn.microsoft.com/101-LINQ-Samples-3fb9811b

[12] "Regex" [Access: May 2 2013] online: http://www.regular-expressions.info/tutorial.html

[13] "Entity Framework" " [Access: May 14 2013] online: http://msdn.microsoft.com/en-us/data/ef.aspx

[14] "Visual Studio" " [Access: May 19 2013] Online:
http://www.microsoft.com/visualstudio/eng/

CHAPTER 7

7. Appendices

7.1 Appendix A: Screenshots of TPA Publisher

TPA Publisher

Figure 7: TPA Publisher
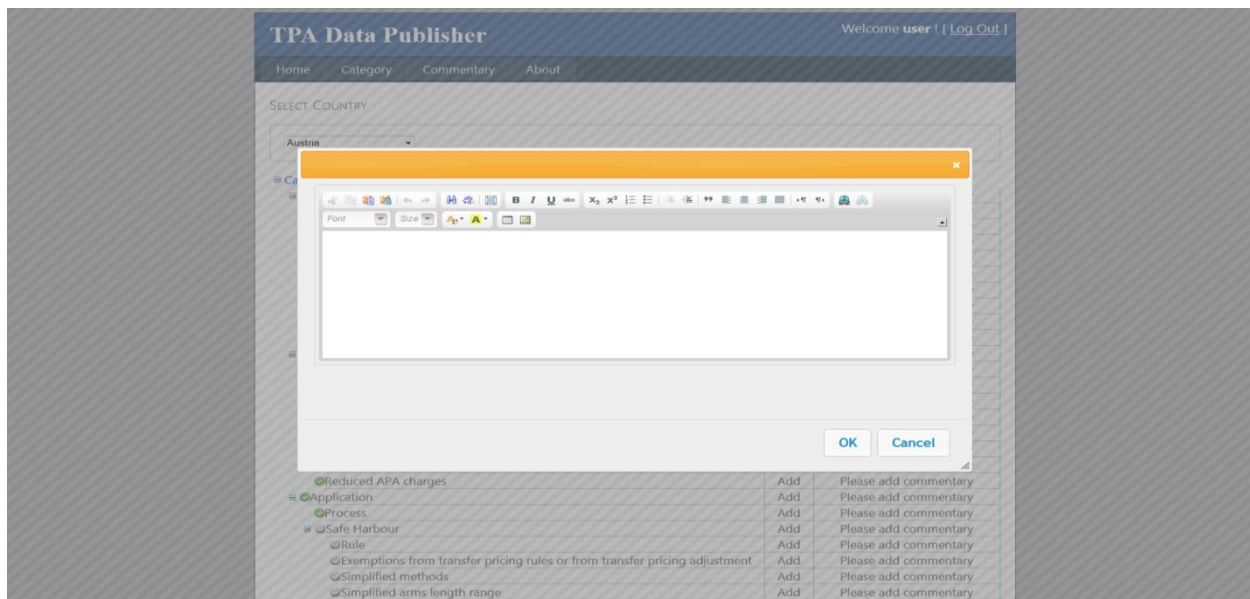
Ck Editor for Editing Text at HTML page in TPA

Figure 8: TPA Publisher with pop-up Ck Editor for editing Text

7.2 Appendix B: Screenshots of Technology of My Project-2

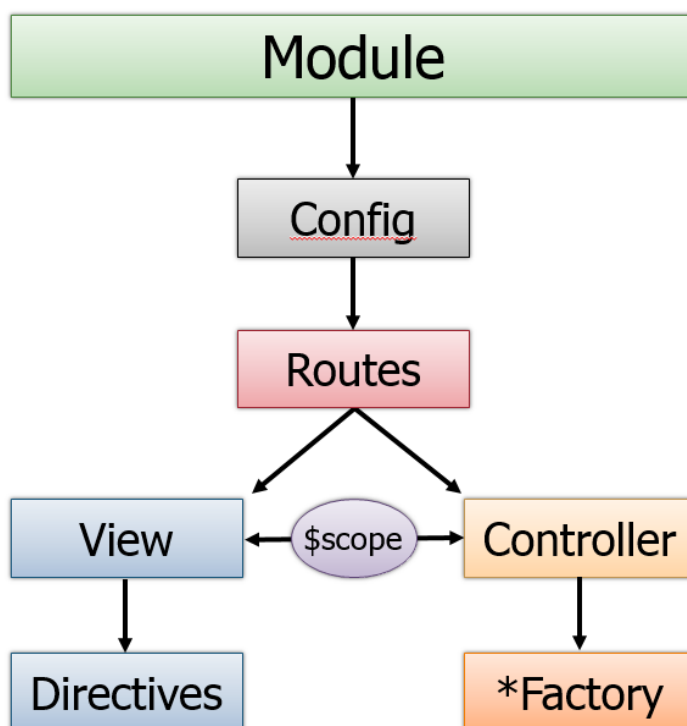## RC Cool 3D Pie Chart without flash

Figure 9: Google Chart API

Figure 10: AngularJS Application Architecture

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