

# **Synopsis Report**

*On*

## **Link Sharing Application**

**NATIONAL INSTITUTE OF TECHNOLOGY UTTARAKHAND**

Guide:

Mr. Maroti Deshmukh

Submitted to:

## **1.1 Introduction about the Company:**

TO THE NEW Digital, is a web application development company based in India focused on Groovy and Grails development. TO THE NEW Digital specializes in delivering high quality applications using Groovy and Grails. It have been working on Grails since its release of version 0.4. Its expertise on Groovy and Grails coupled with agile mind-set helps them build mission critical applications with unmatched speed and quality. It uses Scrum and extreme programming practices for software development and deliver high- quality and production ready software to our customers in short iterations.

Motto: “Serving Grails with Agility”

Vision: “To be the world's most trusted and preferred partner for Grails web development services”

## **Introduction of the project:**

# **“Link Sharing”**

To develop a link sharing application which could be used for sharing useful links/documents amongst a group of subscribers.

Users can create new topics or subscribe to existing topics. A topic can be either private or public. A public topic is visible/open for subscription to every user. A private topic can be subscribed only through an invitation sent by an existing subscriber.

## **The application should provide a solution to following stories:**

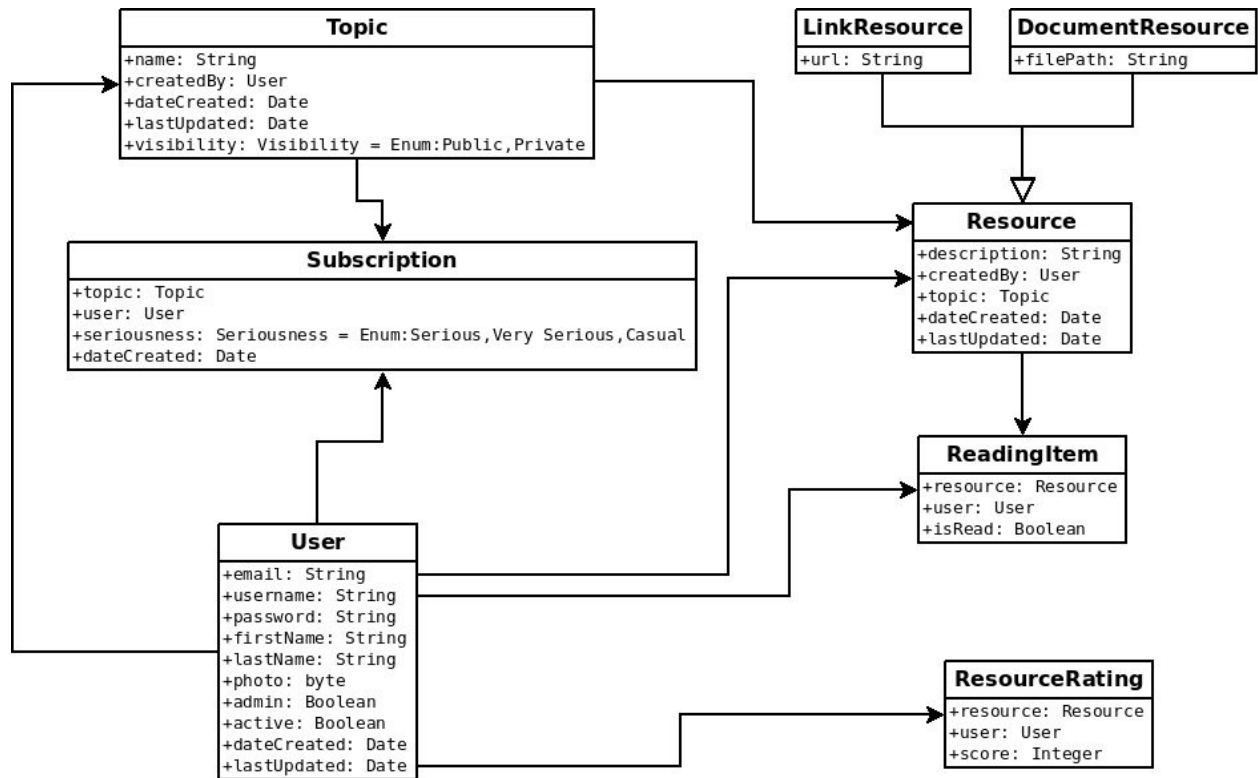
1. A user should be able to login.
2. A new user should be able to register. An active valid user should be able to login with correct credentials.
3. A user should be able to reset his/her password by clicking on the forgot password link.

4. User can create a new topic and he will be automatically subscribed to it with seriousness(SERIOUS, CASUAL, VERY\_SERIOUS) of Very Serious. The topic can be private or public. Name of the topic should be unique per user.
5. User can subscribe to an existing public topic.
6. User can specify his/her seriousness to a particular topic.
7. Subscribed users can send invites to a public or private topic.
8. The user should be able to browse all the public topics.
9. The user should be able to add a resource to a subscribed topic.
  1. A resource can either be a link resource or a document resource.
  2. A link resource will contain a link to an external resource or even an internal resource.
  3. A document resource will consist of downloadable content.
10. The user cannot be deleted.
11. The user should be able to mark a resource as read/unread.
12. Only a Creator of a resource or admin can delete a resource.
13. Only a Creator of a topic or admin can delete a topic. Its resources should also be deleted irrespective of the ownership status or resources.
14. User can rate a resource. Most subscribed topic will be a trending topic.
15. Package name should be com.intelligrape.linksharing

#### **Desired UI**

1. Header shown on dashboard page will show on every user logged in page, non logged in user will see home page header.
2. Flash message should pop up on every ajaxified create, delete or update of any record.
3. Ajax related tasks (search,pagination,model, rating etc) will be done after ajax session is done till then normal page load behaviour will work.
4. Social share will be the last feature.

## Class Structure




1. Domains of the project should match this class diagram.
2. Take care of belongsTo and hasmany relationships.
3. Seriousness and visibility will be enums.


## Home Page

[Link Sharing](#)

Recent shares




Uday Pratap Singh @uday 5 min [Grails](#)  
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[View post](#)



Uday Pratap Singh @uday 10 min [Grails](#)  
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Top posts



Uday Pratap Singh @uday 21 Jul 2014 [Grails](#)  
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[View post](#)

Drop down will have, Today, 1 week, 1 month, 1 year.

Today ▼

Login

Email/Username \*

Password \*

[Forgot password](#)

Register

First name \*

Last name \*

Email \*

Username \*

Password \*

Confirm password \*

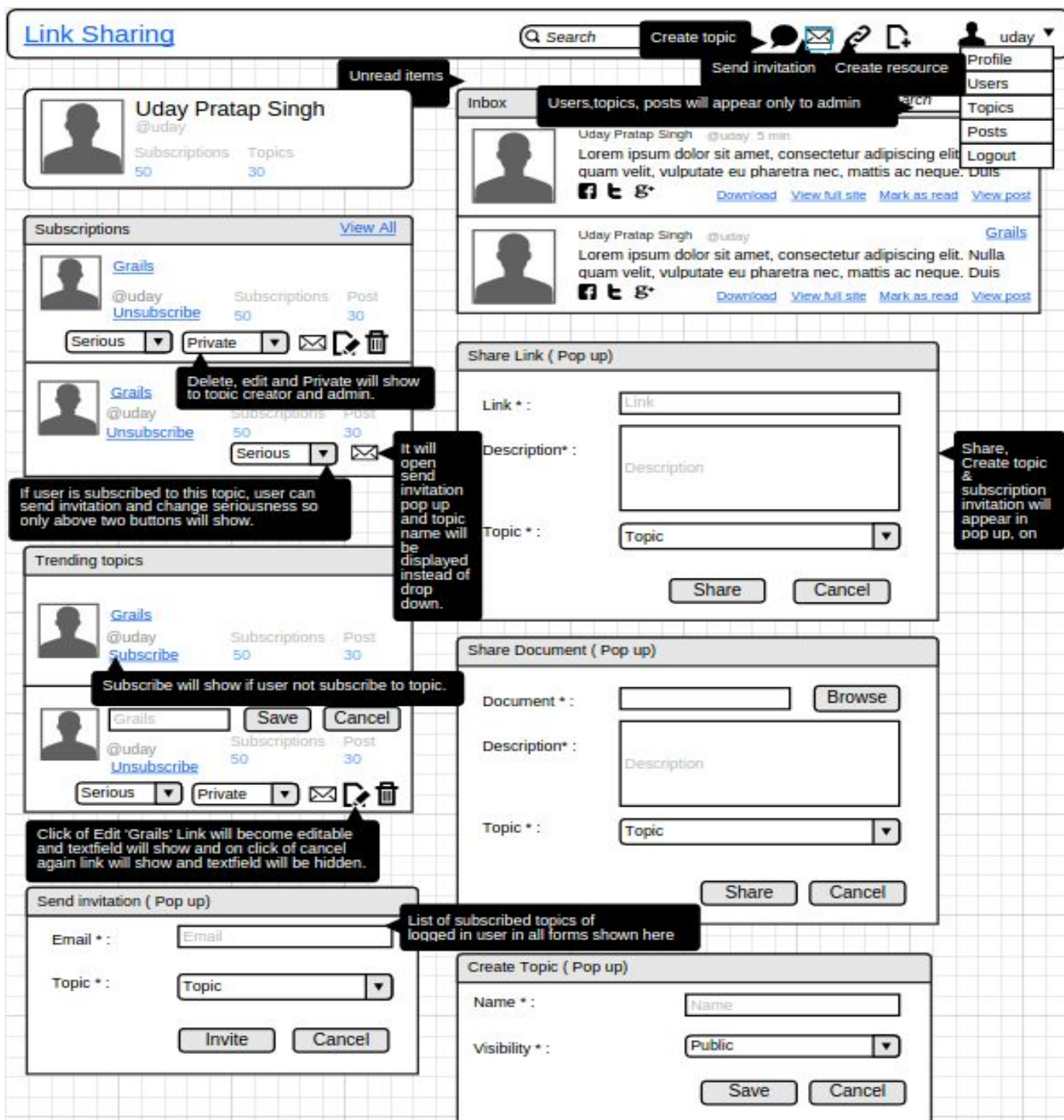
Photo

1. Home page will appear if user is not logged in.
2. Top posts are those resources which have maximum rating and its topic should be public. Top 5 records will be shown.
3. Recent share will have latest 5 resources created in public topics.
4. Posts of public topics will be shown only.
5. Email and username will be unique.

6. After register or login, user will go to dashboard.
7. Drop down in top post will change the content on change of dropdown.(It will be ajaxified)
8. Clicking on user image will take to user profile page.
9. Clicking on topic name e.g; **Grails** will show the topic show page.
10. / URL should take the user to dashboard if logged in and login page if not logged in.
11. If user do not uploads image then default image will show otherwise uploaded image will show.


## DASHBOARD

1. This is the default/home page for logged in user.
2. User information will be shown on top left like number of subscriptions and topics created by user. Clicking on user subscription will show the list of subscribed topics of user. Click on user topic will show topics created by user. It will be topic list page.
3. Inbox will show all the unread items. Search will be ajaxified and the ajaxed paginated.
4. Clicking on mark as read will remove the record from inbox.
5. Download will appear for document resource otherwise view full site will appear.
6. View full site will open the link in new tab.
7. Trending topics will be based on maximum number of posts. Top 5 will be shown.
8. Subscriptions will show the 5 subscribed topics of the user, ordered by latest post entered in the topic. It will show the number of subscribed users for the topic and the number of post shared in that topic.
9. Clicking on view all will show all the topics in alphabetical order.
10. Only admin and the owner of the topic will be able to see the Edit, Delete and change of visibility of the topic.
11. Edit will be inline editing of topic name.
12. Changing the drop down of topic visibility will update the topic. Same for seriousness.
13. Visibility drop down will appear only if the user is admin or the topic is created by logged in user, same for changing the name of topic
14. Send invitation will open the pop up, where user will select the existing subscribed topics or can create a new topic which will update the topic dropdown.
15. Clicking on comment icon next to search box will open create topic pop up.
16. Topic name will be unique per owner.
17. Share link and document will be a pop up as well which will open by clicking on the links given on header.
18. Clicking on topic name will show topic show page.
19. User can create new topic by clicking on header icon, it will show the pop of create topic.
20. Navigation will be same for all the users.
21. Unsubscribe will be shown to subscribed topic, user can unsubscribe by clicking on it.




## Topic Show

[Link Sharing](#)

 uday ▾


[Profile](#)[Logout](#)

Topic : "Grails"


[Grails](#) (Private)  
@rcthomas  
[Subscribe](#)

Subscriptions 50Post 30


Serious ▾



Users : "Grails"







Uday Pratap Singh  
@uday  
Subscriptions 50Topics 30







Uday Pratap Singh  
@uday  
Subscriptions 50Topics 30

Posts : "Grails"



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1. Clicking on the topic name will show this page
2. Ajaxified paginated list of users and posts of the topic will be shown.
3. Users and posts will be 10 per page.
4. User can search post within the selected topic.
5. Topic name will be shown on posts, users and topic panel header.
6. If topic is subscribed then unsubscribe link will be shown.
7. Owner of the topic cannot unsubscribe the topic




## Search

[Link Sharing](#)

 uday ▾

[Profile](#)[Logout](#)

Trending topics




[Grails](#)

@u daySubscriptions50Post30


Save

@u daySubscriptions50Post30

Serious ▾Private ▾






Top Posts




Uday Pratap Singh @u day[Grails](#)

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



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


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Search for "test"




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



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Uday Pratap Singh @u day[Grails](#)

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1. Top post and trending topics will show 5 records.
2. Search will be based on text in topic name or resource description.
3. ajaxified pagination on search with 10 records each page.
4. Search needs to have some text.
5. Admin can search all the post by entering blank text in search.

## Post

[Link Sharing](#)

Search

Profile Logout



Uday Pratap Singh

@uday

2:45 PM 22 Feb 2014

Grails

5 hearts

scing elit. Nulla quam

velit, vulputate eu phare

commodo lectus, ac blandit elit tincidunt id. Sed rhoncus, tortor sed

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dui. Quisque nec mauris sit amet elit iaculis pretium sit amet quis

Facebook

Twitter

Google+

Edit delete will appear only to admin and creator of post. Edit delete will open pop up.

View site and download will appear based on link or document resource


Delete

Edit

Download

View full site

Trending topics



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@uday


Grails

Subscriptions

Post

50

30



Uday Pratap Singh

@uday

Grails

Serious

Public

Subscriptions

Post

50

30

Edit

Delete

Register and login will appear if user is not logged in otherwise trending topic will appear

1. This page will appear when user click on **View Post** link posts panel.
2. Edit will open the popup same as used for creating the post.
3. In Edit of resource topic will not be editable show it as a label
4. User can rate post and share it on social sites.
5. Rating widget will be created after advance jquery till then drop down will work.
6. Number of users rated the post should be displayed adjacent to the ratings.

## Edit Profile

[Link Sharing](#)

uday ▾  
Profile  
Logout

**Uday Pratap Singh**  
@uday  
Subscriptions 50   Topics 30

Topics

@uday   Subscriptions 50   Post 30  

Serious ▾   Private ▾

Profile

First name \*

Last name \*

Username \*

Photo

Change password


Password \*

Confirm password \*


1. This page will appear when user click on profile link in header.
2. Topic created by user will be shown, 10 per page.
3. Pagination and searching of topic will be ajaxified.
4. It will show up when user clicks on profile link in top navigation.

## User Profile

[Link Sharing](#)

 uday ▾

ProfileLogout



**Uday Pratap Singh**  
@uday

Subscriptions50Topics30

Topics

Grails		Subscriptions	Post
Serious ▾	✉	50	30

Grails

[Subscribe](#)

50

30

Subscriptions

Grails		Subscriptions	Post
Serious ▾	✉	50	30

Grails

Serious ▾

✉




50

30

Posts

[Grails](#)




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[Grails](#)

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1. This page will appear for user public profile. It will show up when anybody clicks on user image, subscription count link, topic count link or user name link..
2. Topics panel will show all the public topics created by user 5 per page, ajaxified searching and pagination. Pagination will be ajaxified
3. Subscription panel will show all the topics created by user 5 per page, ajaxified searching and pagination. Pagination will be ajaxified
4. All the post created by user will show in posts panel, 20 per page will be shown.

5. If logged in user is viewing his/her own profile or admin is viewing the profile then private topic data will be included otherwise public topic data will be shown.

## Users (For admin)

[Link Sharing](#)      uday ▼

Users						
List will contain active, inactive and all users			All Users ▼	<input type="text" value="Search"/>	Search	
▼ Id	▼ Username	▼ Email	▼ Firstname	▼ Lastname	▼ Active	▼ Manage
1	uday	uday@intelligrape.com	Uday	Singh	Yes	Deactivate
2	uday	uday@intelligrape.com	Uday	Singh	No	Activate
3	uday	uday@intelligrape.com	Uday	Singh	No	Activate
4	uday	uday@intelligrape.com	Uday	Singh	Yes	DeActivate

1. 20 records per page will be shown to admin.
2. Only admin can access this page.
3. User can be deactivated by admin, by doing this user will not be able to login.
4. Sorting on header should be provided.

## **1.2 Objective of work/module:**

The project aims at developing a web based application that will allow users to share resources with other users, the resource can be some text or some website URL or some document as well.

Few Reasons for the utility of this web application are –

- To Create platforms for discussion.
- To easily share key/important pieces of information.
- To provide a one single source of all the information about a given topic.
- To Provide a benchmark.

## **1.3 Tools And Technologies to be Used:**

Following Software's and development Technologies were used to develop this project-

1. Grails
2. Groovy
3. Apache Tomcat
4. MySQL
5. Git
6. IntelliJ Idea