**********JIRA**********

A brief overview of Jira :

- Jira is a family of products built to help all types of teams manage their work.
- Jira offers several products and deployment options that are purpose-built for Software, IT, Business, Ops teams, and more. Read on to see which is right for you.
- Products and apps built on top of the Jira platform help teams plan, assign, track, report and manage work.
- The Jira platform brings teams together for everything from agile software development and customer support to managing shopping lists and family chores.

Key terms to know :

✓ Issues :

- A Jira 'issue' refers to a single work item of any type or size that is tracked from creation to completion.
- For example, an issue could be a feature being developed by a software team, a to-do item for a marketing team, or a contract that needs to be written by a legal team.

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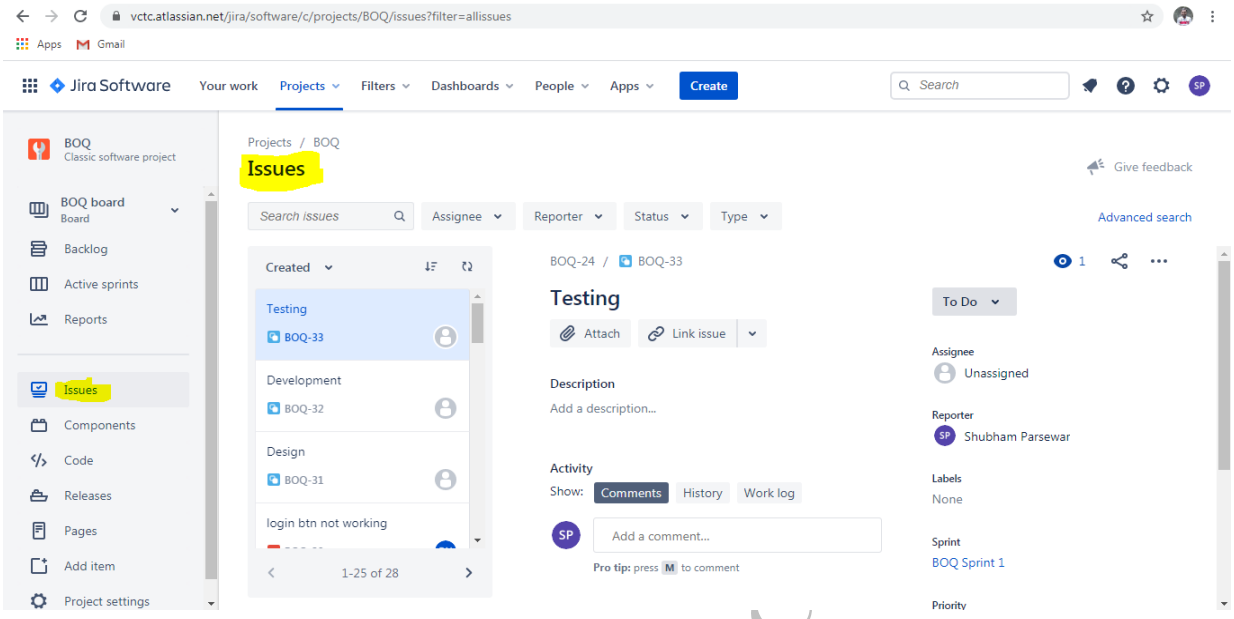
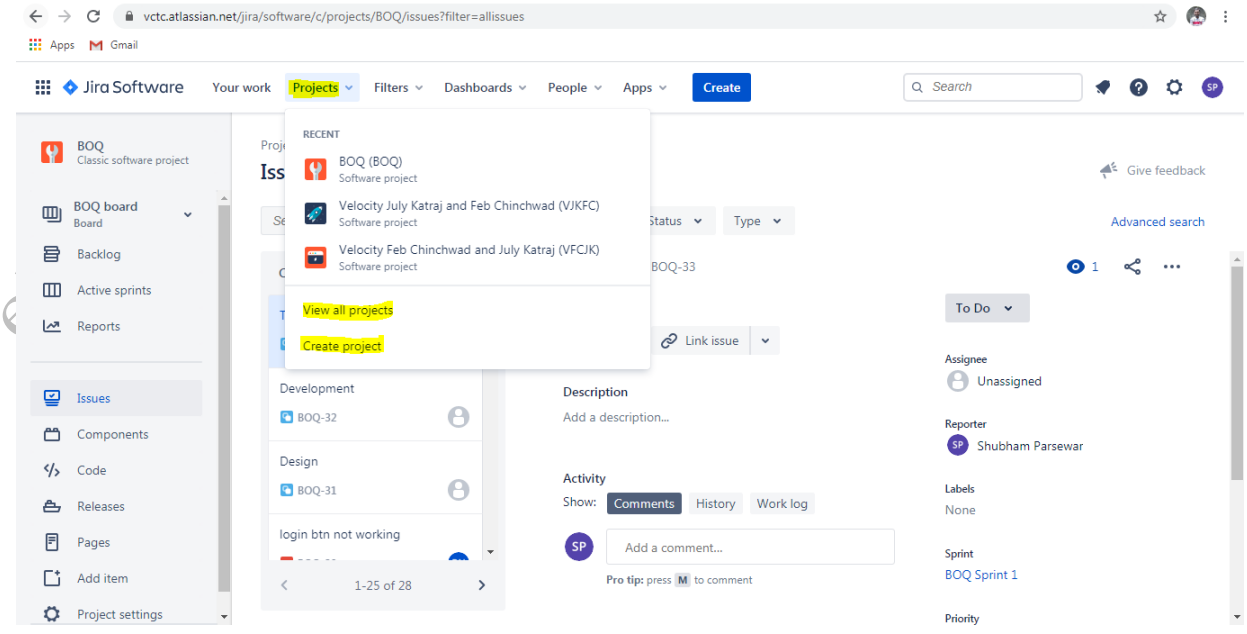


✓ Projects :

- A project is, quite simply, a collection of issues that are held in common by purpose or context.
- Issues grouped into projects can be configured in a variety of ways, ranging from visibility restrictions to available workflows.



✓ Jira for bug tracking :

- Bugs are just a name for to-do's stemming from problems within the software a team is building.
- It is important for teams to view all the tasks and bugs in the backlog so they can prioritize big picture goals.
- Jira's powerful workflow engine ensures that bugs are automatically assigned and prioritized once they are captured. Teams can then track a bug through to completion.

✓ Features for software development :

❖ Scrum boards :

If Scrum is the framework that guides teams and their roles, events, artifacts, and rules, then the Jira Scrum Board is the visual display of its progress during the development cycle.

- **Plan -** Create user stories and issues, plan sprints, and distribute tasks across your software team.
- **Track -** Prioritize and discuss your team's work in full context with complete visibility.

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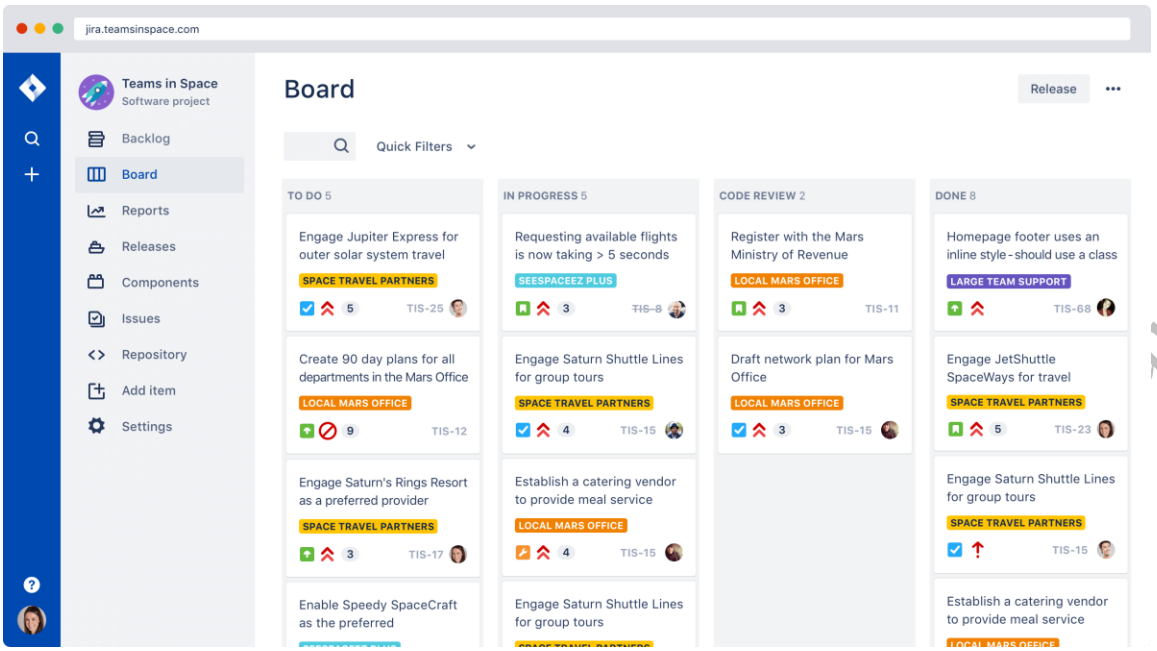

✓ Functions :

❖ Increase communication and transparency –

- The Jira Scrum Board is the single source of truth for the all the work a team needs to complete.
- Since it can be accessed by any team member at any time, everyone clearly understands what's on his or her plate, and can quickly identify any blockers.

❖ Promote sprint planning and iterative development –

- At the heart of the Scrum framework is the Sprint, a designated amount of time (typically two weeks) for teams to build a potentially releasable product increment.
- The Jira Scrum board is designed so teams can organize their work around the Sprint timeframe.

❖ Improve team focus and organization –

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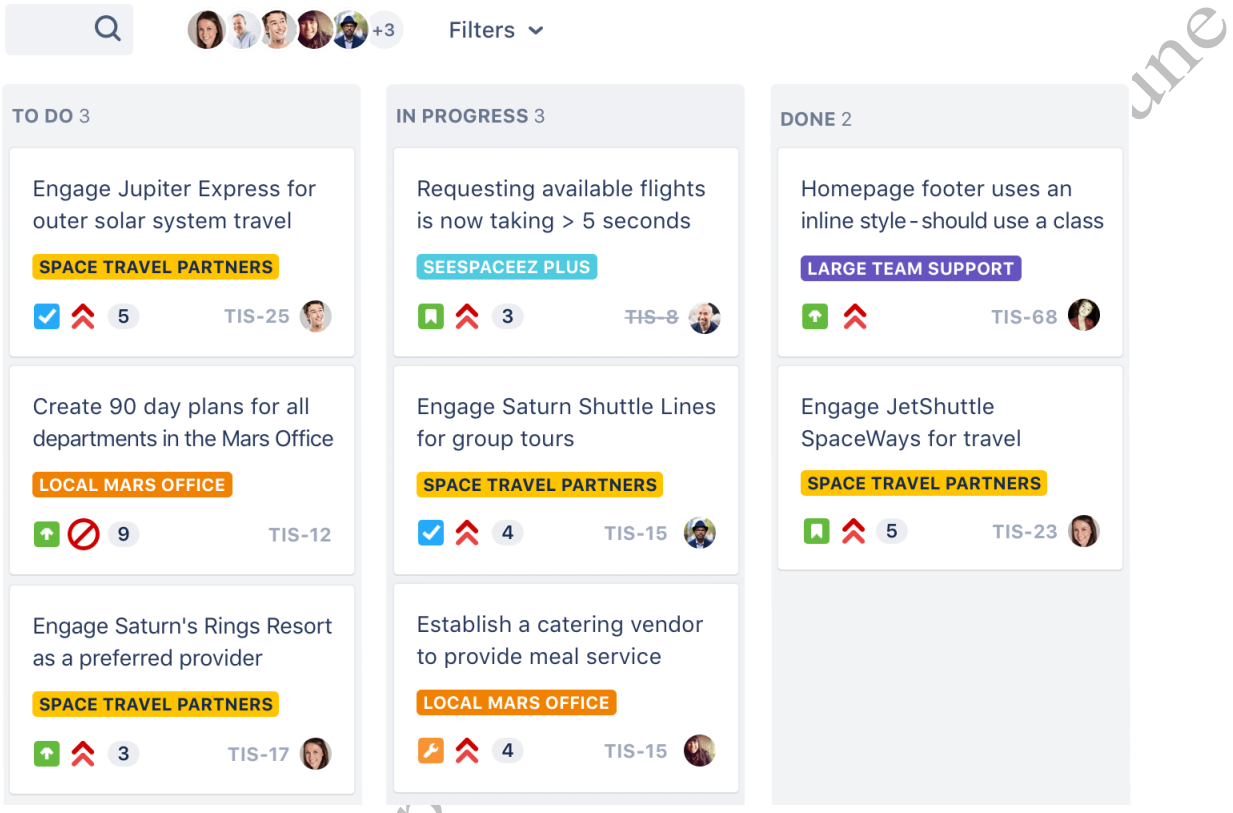
- Teams miss project deadlines when they're over-committed on their workload or lose track of key milestones.
- Jira Scrum Boards provide transparency into the team's work by slicing work into stages and utilizing burndown and velocity reports.



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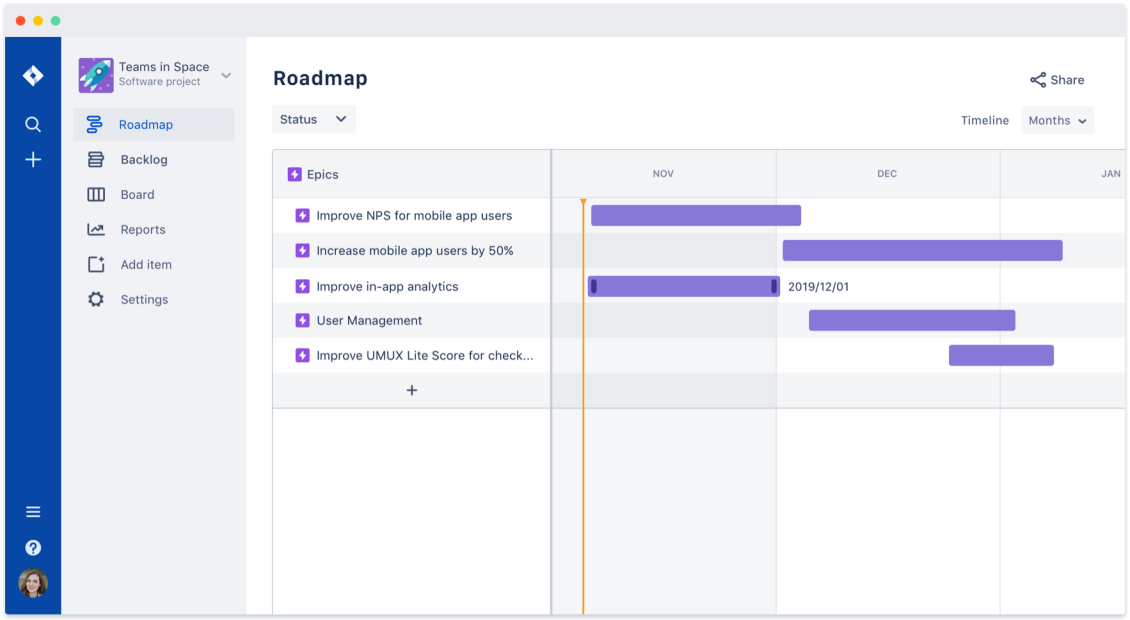
✓ Roadmaps :

Sketch out the big picture, communicate plans with stakeholders, and ensure your roadmap connects to your team's work - all in a few clicks in Jira Software Cloud.



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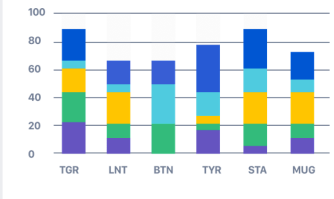
✓ Agile reporting :

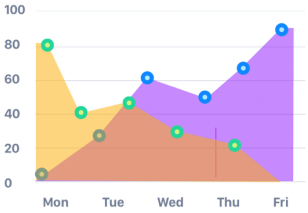
Teams have access to more than a dozen out-of-the-box reports with real-time, actionable insights into how their team is performing sprint over sprint.

Ex. Burnup Chart , Burn Down Chart , Sprint Report



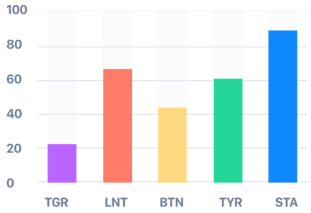
Burndown chart

Track the total work remaining and project the likelihood of achieving the sprint goal. This helps your team manage its progress and respond accordingly.



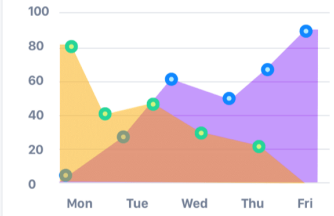
Burnup chart

Track the total scope independently from the total work done. This helps your team manage its progress and better understand the effect of scope change.



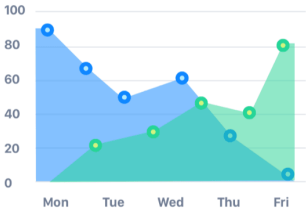
Sprint report

Understand the work completed or pushed back to the backlog in each sprint. This helps you determine if your team is overcommitting or if there is excessive scope creep.



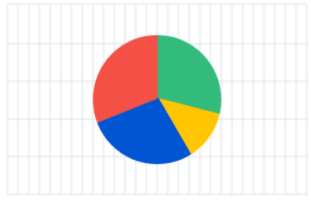
Cumulative flow diagram

Track the total scope independently from the total work done. This helps your team manage its progress and better understand the effect of scope change.



Velocity chart

Track the total work remaining and project the likelihood of achieving the sprint goal. This helps your team manage its progress and respond accordingly.

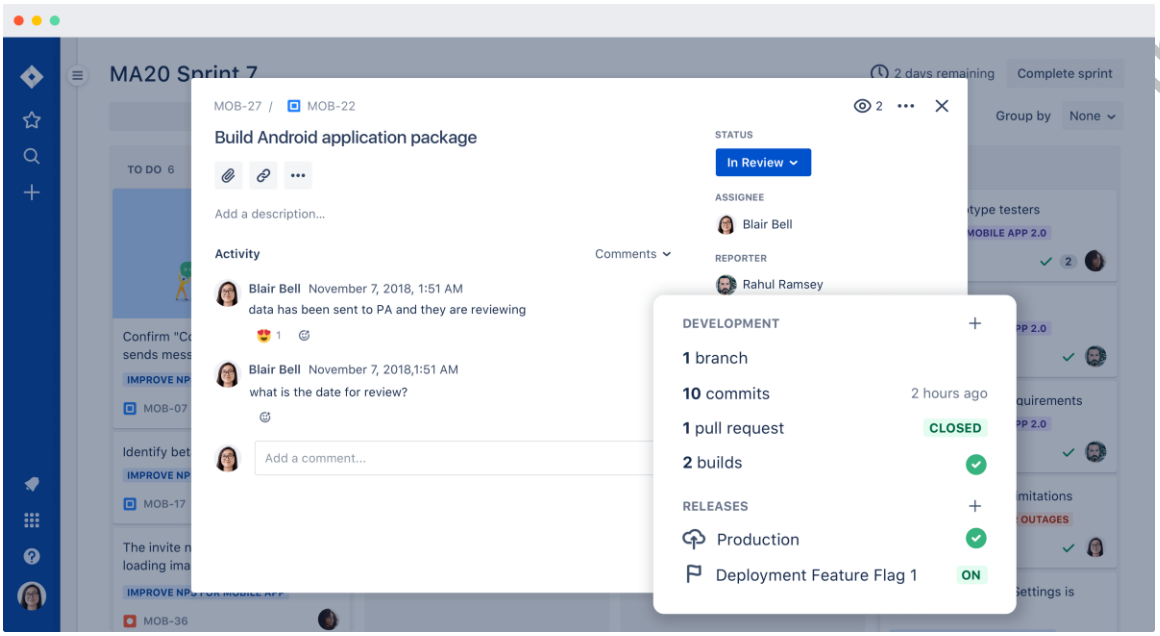


Version report

Understand the work completed or pushed back to the backlog in each sprint. This helps you determine if your team is overcommitting or if there is excessive scope creep.

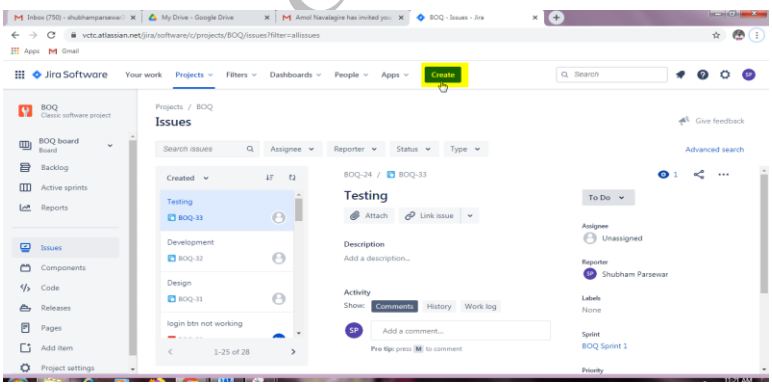
✓ Connect issues to User Stories :

Bring information from your favorite version control, build, deployment or feature flagging tool into Jira Software and get instant visibility into your development pipeline.

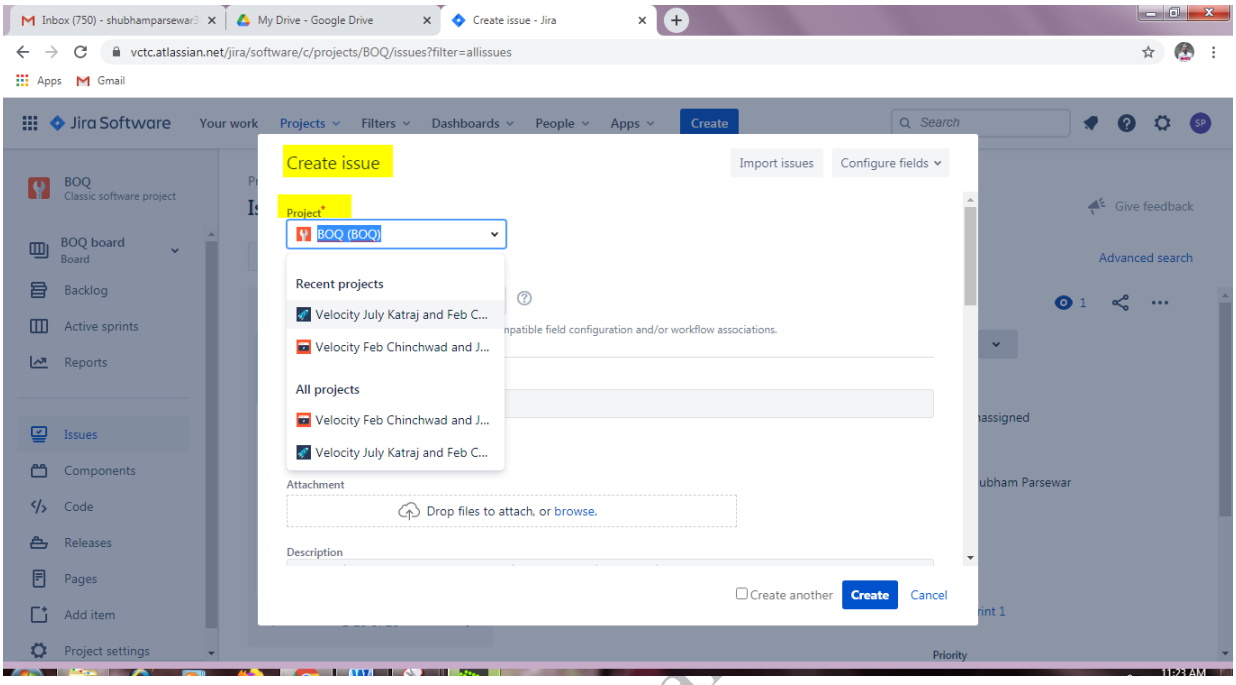


✓ How To Log Defect :

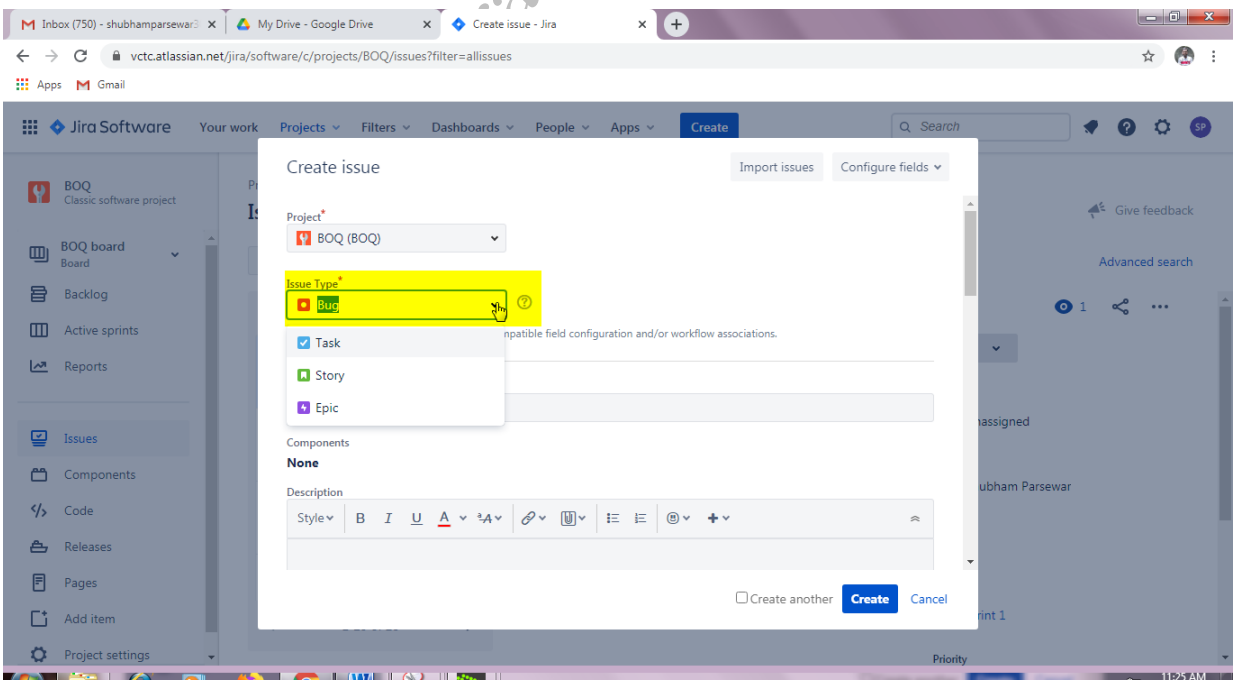
- Click on create button



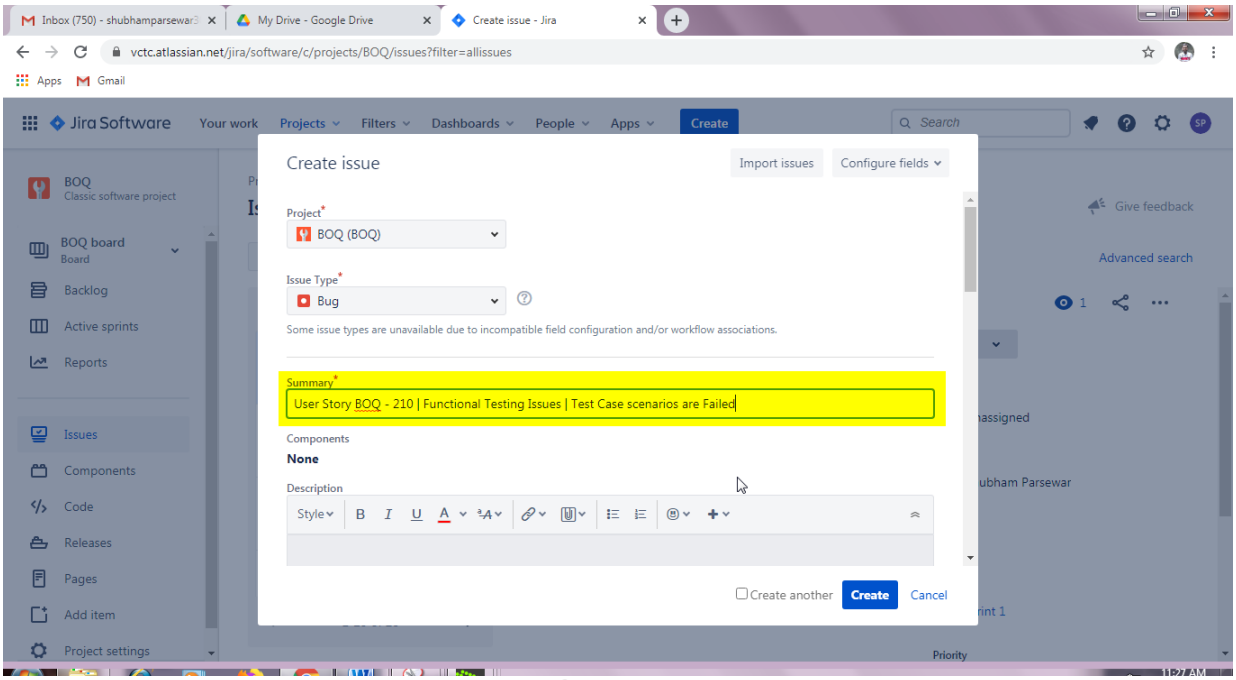
- You will able to see following window and select appropriate project from project dropdown.



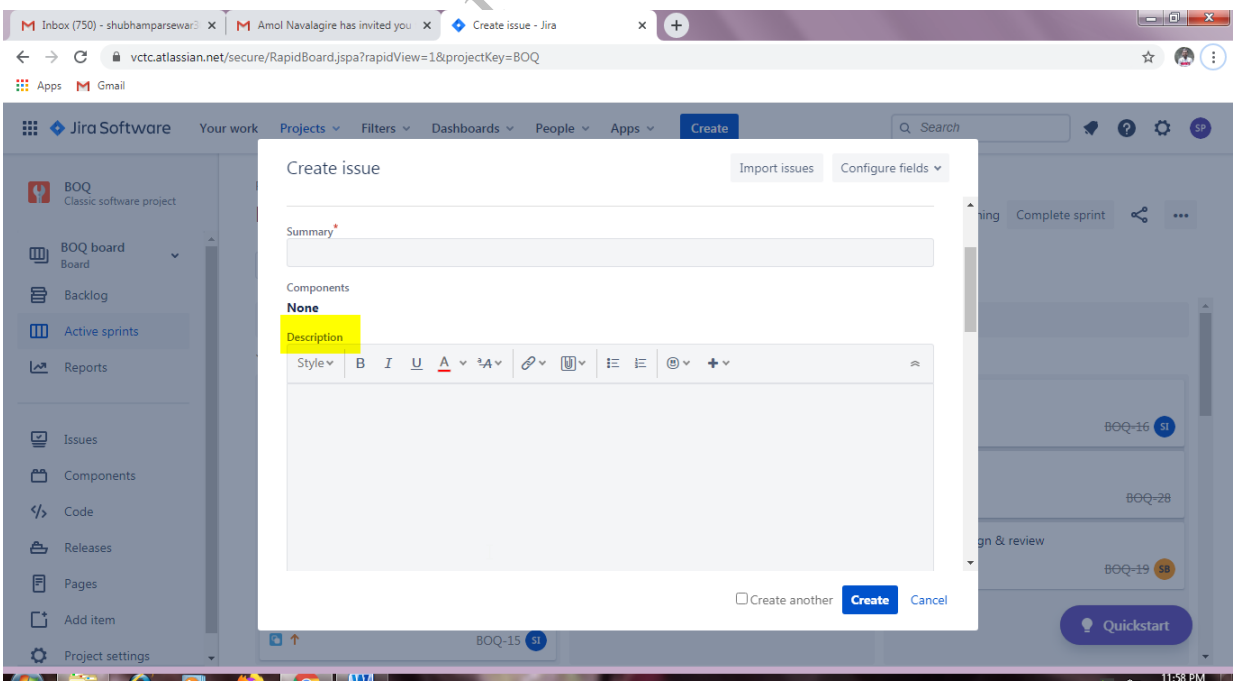
- Select issue type as **Bug.**



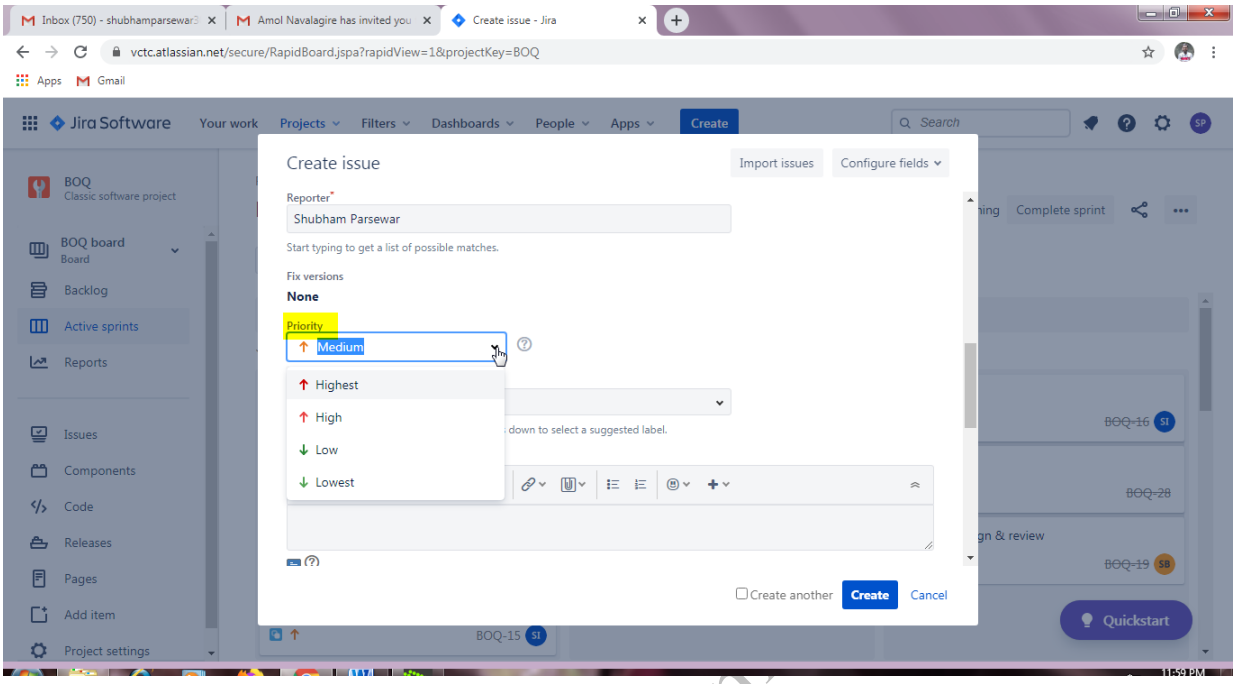
- Then enter the bug summary details in **Summary** tab.



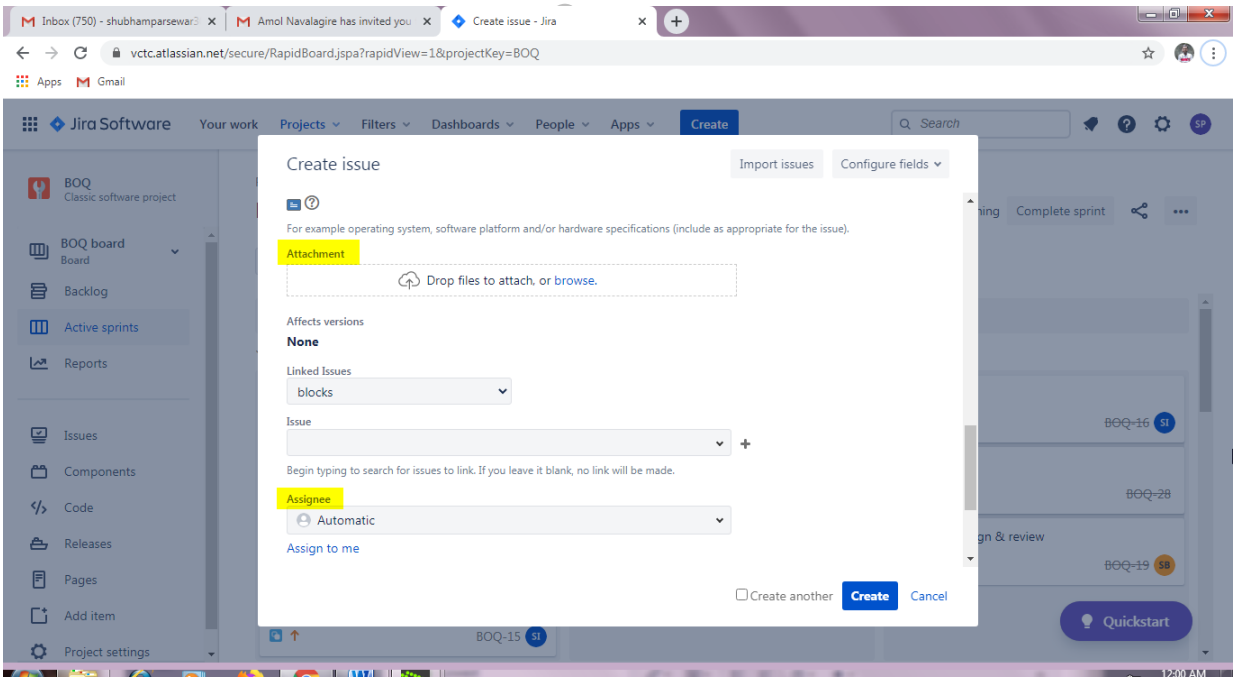
- Enter the description of defect.



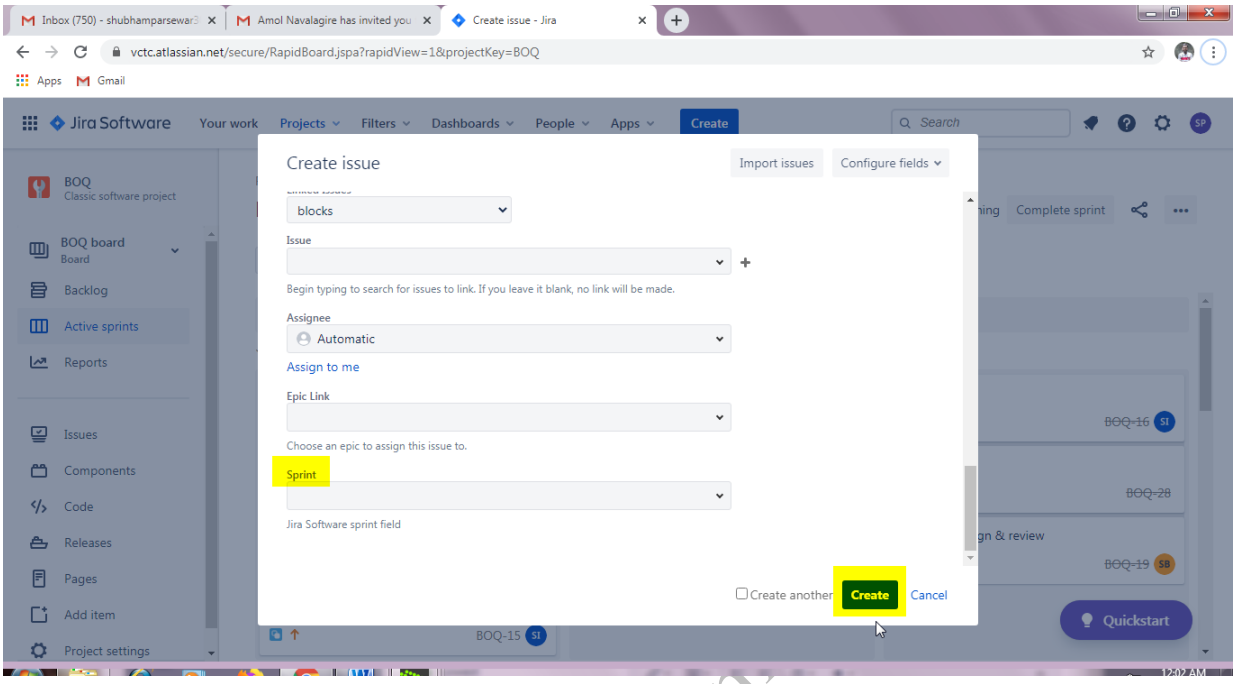
- Then , select appropriate **Priority** of defect.



- After that upload the test evidences in attachment section and from assignee dropdown select the developers name.



- Then , Select sprint and click on create button.



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✓ Agile Meetings/Ceremonies :

Sprint planning :

- **Attendees:** development team, scrum master, product owner and testing team.
- **When:** At the beginning of a sprint.
- **Duration:** Usually an hour per week of iteration.
- **Purpose:**
  - Sprint planning sets up the entire team for success throughout the sprint.
  - Coming into the meeting, the product owner will have a prioritized product backlog.
  - They discuss each item with the development team, and the group collectively estimates the effort involved.

Daily Stand-up :

- **Attendees:** development team, scrum master, product owner and testing team.
- **When:** Once per day, typically in the morning.
- **Purpose**:
  - Stand-up is designed to quickly inform everyone of what's going on across the team.
  - It's not a detailed status meeting. The tone should be light and fun, but informative.

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- Have each team member answer the following questions:

- **What did I complete yesterday?**
- **What will I work on today?**
- **Am I blocked by anything?**

Sprint (Iteration) review :

- **Attendees:** development team, scrum master, product owner , testing team and stakeholder (optional)

- **When:** At the end of a sprint or milestone.

- **Purpose:**

  - Iteration review is a time to showcase the work of the team.

  - They can be in a casual format like "demo Fridays", or in a more formal meeting structure.

  - This is the time for the team to celebrate their accomplishments, demonstrate work finished within the iteration, and get immediate feedback from project stakeholders.

Sprint Retrospective :

- **Attendees:** development team, scrum master, product owner , testing team and stakeholder (optional)

- **When:** At the end of an iteration.

- **Duration:** 60 minutes.

- **Purpose:**
  - Agile is about getting rapid feedback to make the product and development culture better.
  - Retrospectives help the team understand what worked well–and what didn't.
  - Retrospectives aren't just a time for complaints without action. Use retrospectives to find out what's working so the team can continue to focus on those areas.

  - Also, find out what's not working and use the time to find creative solutions and develop an action plan.

  -Continuous improvement is what sustains and drives development within an agile team, and retrospectives are a key part of that.

✓ User Stories Format :

User story 1:

Description:

[1] User is able to sign up in facebook.
[2] User is able to upload a profile picture.
[3] The profile picture should be .jpg and .png format only.
[4] The image size should be 10kb to 100 kb
[5] User is able to upload a cover picture.
[6] The profile picture should be .jpg and .png format only.
[7] The image size should be 40kb to 200 kb.

Acceptance:

User is able to upload a profile and cover picture on facebook.

✓ Scenarios on above user story :

Test Scenario for sign up

[TS_1] Verify user is able to click on the Create new Account for new user/member.
[TS_2] Verify that all the mandatory fields are marked with * symbol.
[TS_3] Verify whether user is able to sign up with all mandatory fields.
[TS_4] Verify whether user is able to sign up with mandatory and optional fields.
[TS_5] Verify whether user is able to sign up with valid credentials.
[TS_6] Verify whether user is unable to sign up with invalid credentials.
[TS_7] Verify whether system generate validation popup without filling mandatory fields.
[TS_8] Verify whether system generate validation popup with only optional fields.
[TS_9] Verify whether Email ID and confirm Email Id are same or not.
[TS_10] Verify the character limits and conditions for password field.
[TS_11] Verify user is able to click on the sign up tab for submission of form.
[TS_12] Verify whether submitted form is saved at the database.
[TS_13] Verify whether user is able to log in with the saved credentials.
[TS_14] Verify whether user is able to reset password if password is wrong or forgot.
[TS_15] Verify whether user is able to recover password with different options.

✓ Test cases :

[TS_1.1] Verify whether user is able to sign up to facebook with the valid ceredentials			
Sr.No	Actual Result	Excepted Result	Data Input
TS_1.1.1	Open browser and enter url	User is able to enter url in search field	www.facebook.com
TS_1.1.2	Click on Create new Account	User is able to click on Create new account Tab	
TS_1.1.3	check mandatory field marked with *symbol	user is able see marked mandatory fields	
TS_1.1.4	Click on the First Name field	User is able to see the cursor is blinking or not	
TS_1.1.5	Enter First Name in text box	User is abe to enter and add the First Name	First Name : Jonny
TS_1.1.6	Click on the Last Name field	User is able to see the cursor is blinking or not	
TS_1.1.7	Enter Last Name in text box	User is abe to enter and add the Last Name	Last Name : Backof
TS_1.1.8	Select Date of Birth (dd/mm/yyyy)	User is able to select the DoB as formate	
TS_1.1.9	Click on the Email Id in email id field	User is able to see the cursor is blinking or not	
TS_1.2.10	Enter Email Id in Text Box	User is able to enter Email Id	Email ID: JonnyBackof@gmail.com
TS_1.1.11	Click on the Re-email Id in confirm email id field	User is able to re-enter Email ID in confirm email id field	
TS_1.1.12	Re-enter Email ID in the confirm email id field	User is able to enter mail id again for confirmation	Re-email ID: JonnyBackof@gmail.com
TS_1.1.13	Enter the selected DoB	User is able to add Birth of date	DOB: 11/12/2000
TS_1.1.14	Select the Gender	User is able to check one of gender from mentioned Genders	Gender : Male
TS_1.1.15	Click on the password in password field	User is able to click on the password field	
TS_1.1.16	Check whether password field is encrypted	User is able to hide enter password	Password: *********
TS_1.1.17	Enter Password in password field with given character limit and conditions	User is able to enter the Password in password field	Password: Jonny@123
TS_1.1.18	Click on the Mobile Number field	User is able to enter a mobile number	

[TS_1.2] Verify whether user is able to sign up to facebook with the invalid ceredentials			
Sr.No	**Actual Result**	**Excepted Result**	**Data Input**
TS_1.2.1	Open browser and enter url	User is able to enter url in search field	www.facebook.com
TS_1.2.2	Click on Create new Account	User is able to click on Create new account Tab	
TS_1.2.3	check mandatory field marked with *symbol	user is able see marked mandatory fields	
TS_1.2.4	Click on the First Name field	User is able to see the cursor is blinking or not	
TS_1.2.5	Enter invalid First Name in text box	User is abe to enter and add the First Name	First Name : Jonny1245
TS_1.2.6	Click on the Last Name field	User is able to see the cursor is blinking or not	
TS_1.2.7	Enter invalid Last Name in text box	User is abe to enter and add the Last Name	Last Name : Backof1458
TS_1.2.8	Select Date of Birth (dd/mm/yyyy)	User is able to select the DoB as format	
TS_1.2.9	Enter the invalid selected DoB	User is able to add Birth of date	DOB: 11/12/2019
TS_1.1.10	Click on the Email Id in email id field	User is able to see the cursor is blinking or not	
TS_1.2.11	Enter invalid Email Id in Text Box	User is able to enter Email Id	Email ID: Jonny_Backof@gmail.com
TS_1.2.12	Click on the Re-email Id in confirm email id field	User is able to re-enter Email ID in confirm email id field	
TS_1.2.13	Re-enter Email ID in the confirm email id field	User is able to enter mail id again for confirmation	Re-email ID: Jo122Backof@gmail.com
TS_1.2.14	Click on the password in password field	User is able to click on the password field	
TS_1.2.15	Check whether password field is encrypted	User is unable to hide enter password	Password: Jonnyback@123
TS_1.2.16	Enter Password in password field with given character limit and conditions	User is able to enter the Password in password field	Password: Jonnyaback@123
TS_1.2.17	Click on the Mobile Number field	User is able to enter a mobile number	
TS_1.2.18	Enter the Mobile Number	User is able to add a mobile number with country code	Mobile No.: +911234567890
TS_1.2.19	Click on the submit tab	User is unable to Sign up with entered credentials	

[TS_1.3] Verify whether system generate validation popup without filling mandatory fields			
Sr.No	**Actual Result**	**Excepted Result**	**Data Input**
TS_1.3.1	Open browser and enter url	User is able to enter url in search field	www.facebook.com
TS_1.3.2	Click on Create new Account	User is able to click on Create new account Tab	
TS_1.3.3	check mandatory field marked with *symbol	user is able see marked mandatory fields	
TS_1.3.4	Keep all mandatory fields empty	User is able to keep mandatory field empty	
TS_1.3.5	Enter input data for optional field	User is able to enter data in optional fields	Mobile No.:+911234567895
TS_1.3.6	Click on the sign up tab	User is able to see empty mandatory fields highlighted with Red color	

[TS_1.4] Verify whether Email ID and confirm Email Id are same.			
Sr.No	**Actual Result**	**Excepted Result**	**Data Input**
TS_1.4.1	Open browser and enter url	User is able to enter url in search field	www.facebook.com
TS_1.4.2	Click on Create new Account	User is able to click on Create new account Tab	
TS_1.4.3	check mandatory field marked with *symbol	user is able see marked mandatory fields	
TS_1.4.4	Enter Email ID in the email id field	User is able to enter a Email ID	Email ID: JonnyBackof@gmail.com
TS_1.4.5	Re-enter Email ID in the confirm email id field	User is able to enter mail id again for confirmation	Re-email ID: JonnyBackof@gmail.com
TS_1.4.6	Click on Sign up tab	User is able to sign up successfully	

[TS_1.5] Verify whether Email ID and confirm Email Id are different.			
Sr.No	**Actual Result**	**Excepted Result**	**Data Input**
TS_1.5.1	Open browser and enter url	User is able to enter url in search field	www.facebook.com
TS_1.5.2	Click on Create new Account	User is able to click on Create new account Tab	
TS_1.5.3	check mandatory field marked with *symbol	user is able see marked mandatory fields	
TS_1.5.4	Enter Email ID in the email id field	User is able to enter a Email ID	Email ID: JonnyBackof@gmail.com
TS_1.5.5	Re-enter different/wrong Email ID in the confirm email id field	User is able to enter mail id again for confirmation	Re-email ID: Jonnyckof@gmail.com
TS_1.5.6	Click on Sign up tab	User is able to see error message popup as "Your emails don't match. Please try again"	

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