

**4 June 1996**

*Ariane 5 rocket launched by the European Space Agency exploded just under forty seconds after its lift-off*



**Rocket Ariane 5**

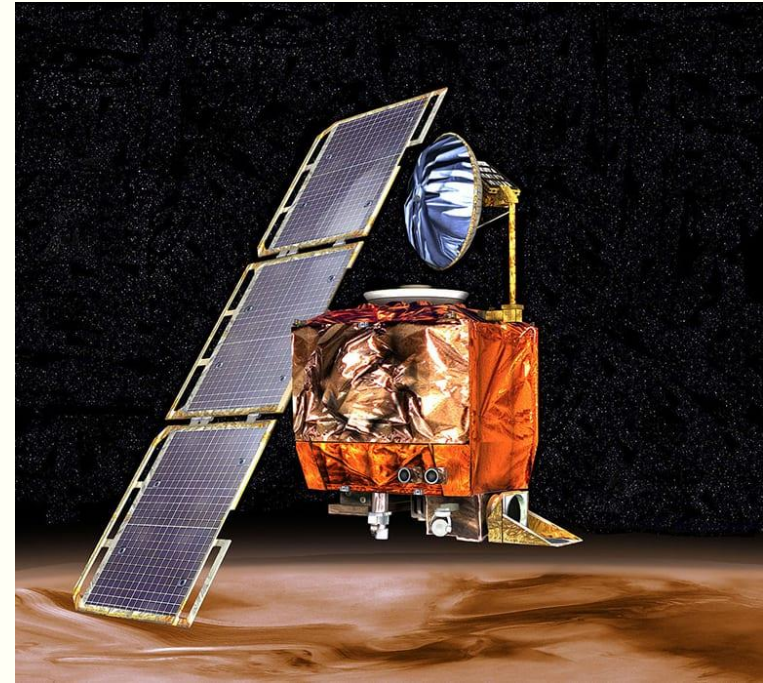
**SOFTWARE QUALITY ASSURANCE**

# Software Quality Assurance



**Therac-25**

<https://hackaday.com/>



**Mars Climate Orbiter**

<https://www.simscale.com>

**SOFTWARE QUALITY ASSURANCE**

# Software Quality Assurance

**4 June 1996**

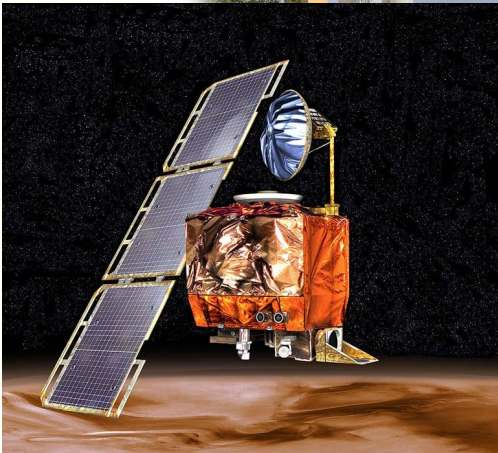
*Ariane 5 rocket launched by the European Space Agency exploded just under forty seconds after its lift-off*



## Kegagalan pada software

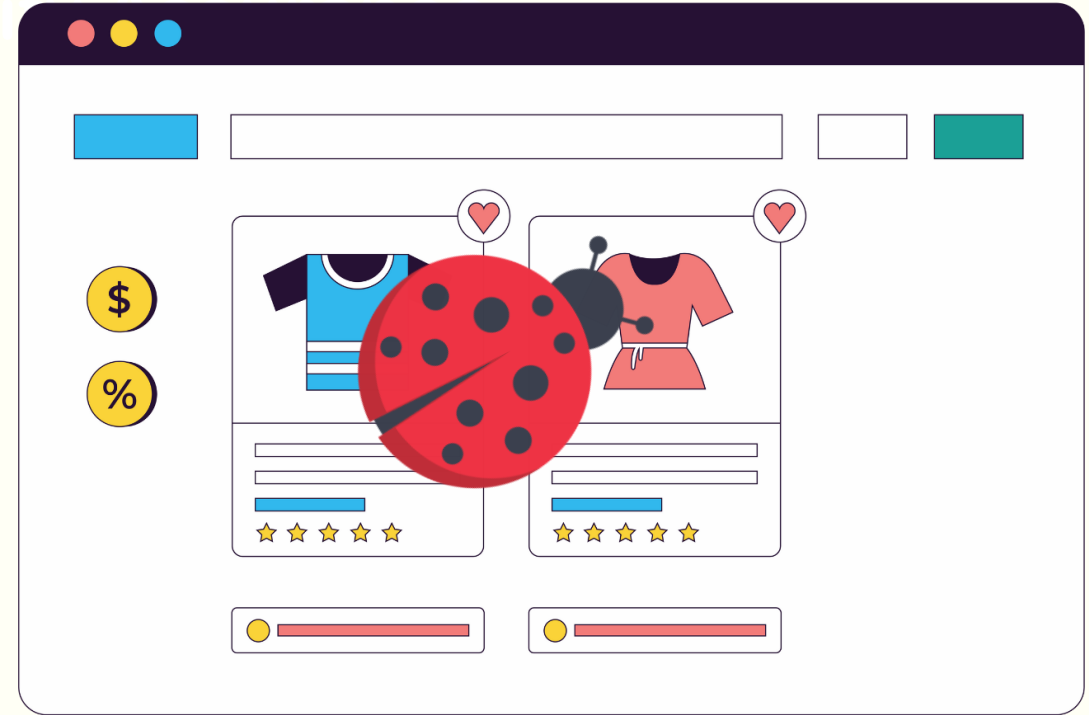


1. Kerugian finansial
2. Rusaknya reputasi
3. Membahayakan keselamatan



**SOFTWARE QUALITY ASSURANCE**

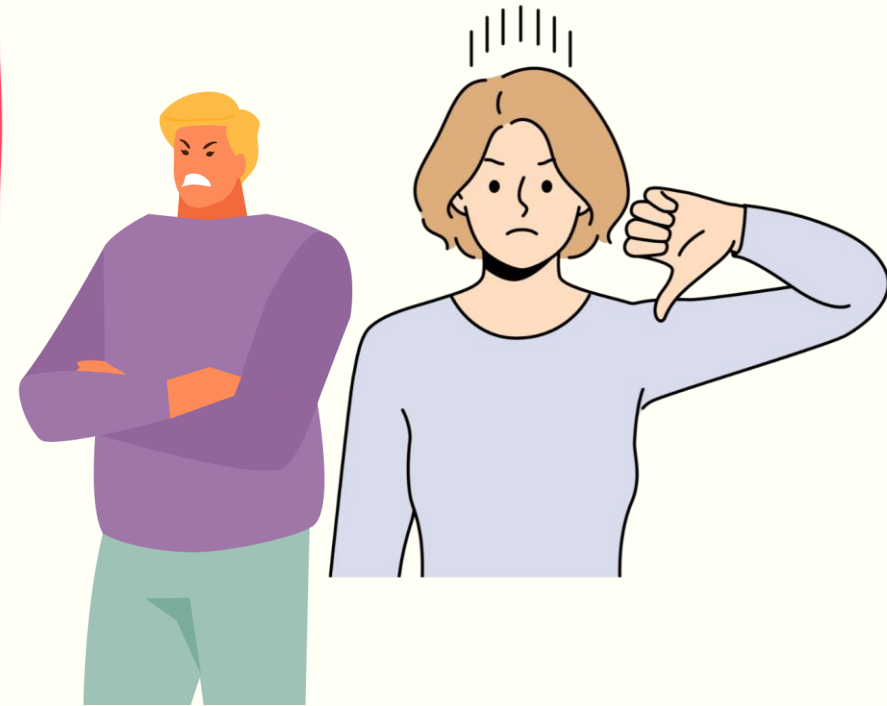
# Software Quality Assurance



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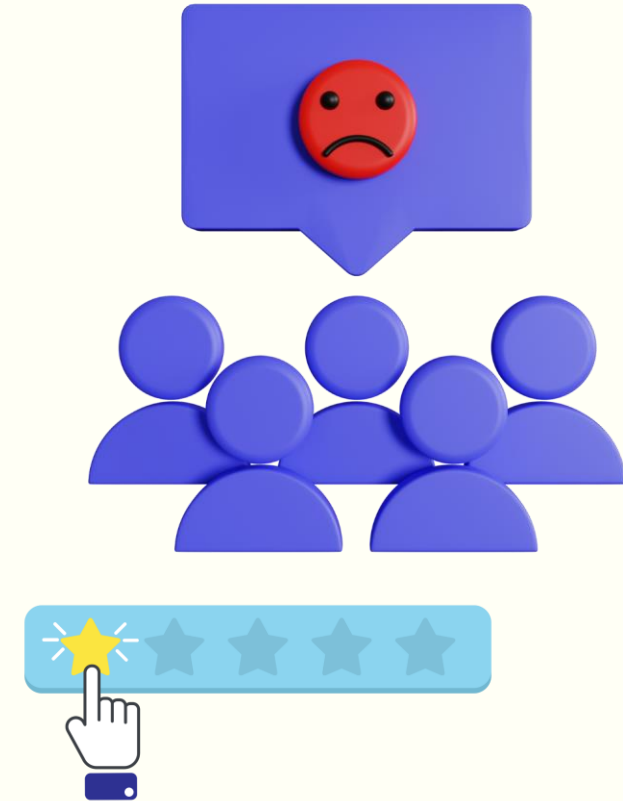


# Software Quality Assurance



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Software Quality Assurance

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**SOFTWARE QUALITY ASSURANCE**



HaloTech.in

# Software Quality Assurance

## Skill yang di Butuhkan Software Quality Assurance

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### 1. Pemahaman Produk

Pemahaman terkait produk yang dikembangkan seperti spesifikasi produk, tujuan, dan calon pengguna produk sangat penting untuk dapat memahami kebutuhan pengguna dengan lebih baik.

Pengujian yang lebih baik



Menjamin kepuasan pengguna



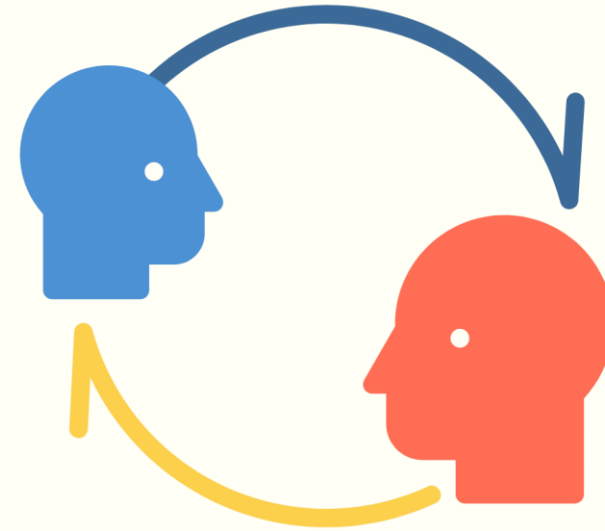
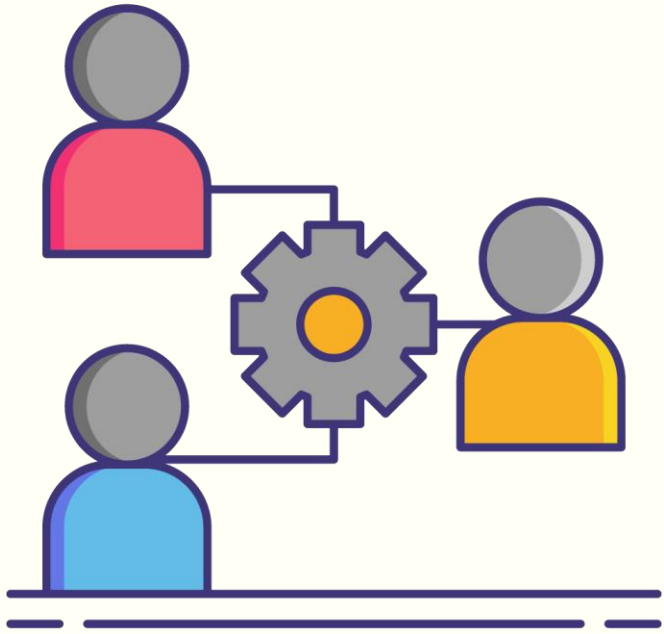


# Software Quality Assurance



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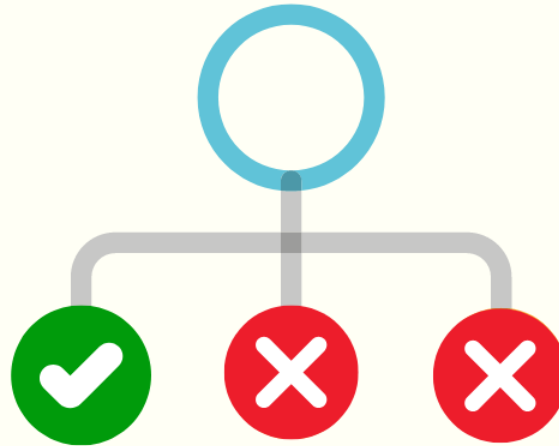
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# Software Quality Assurance



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## Skill yang di Butuhkan Software Quality Assurance

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### 2. Teliti, Berorientasi Detail, dan Terstruktur

Hal ini diperlukan agar tidak ada rencana pengujian yang terlewatkan dan dapat memastikan hasil pengujian benar dan telah sesuai seperti yang diharapkan.

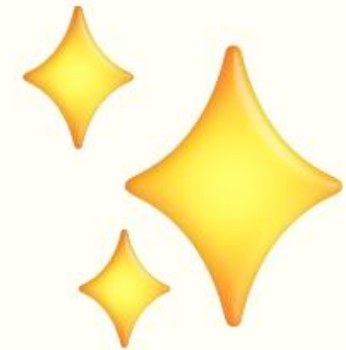


# Software Quality Assurance

## Skill yang di Butuhkan Software Quality Assurance

### 3. Kreatif dan Inovatif

QA harus menjadi kreatif dan inovatif agar dapat menganalisis kemungkinan kecacatan pada produk dari berbagai skenario dan dapat terus berinovasi mengembangkan pengetahuan untuk mengimplementasikan tools atau metode yang terbaik.





# Software Quality Assurance

## Skill yang di Butuhkan Software Quality Assurance

### 4. Komunikasi dan Kerja Tim

Pekerjaan QA yang banyak berhubungan dengan berbagai pihak menjadikan kemampuan berkomunikasi yang baik dan semangat bekerja dalam tim sangat dibutuhkan.



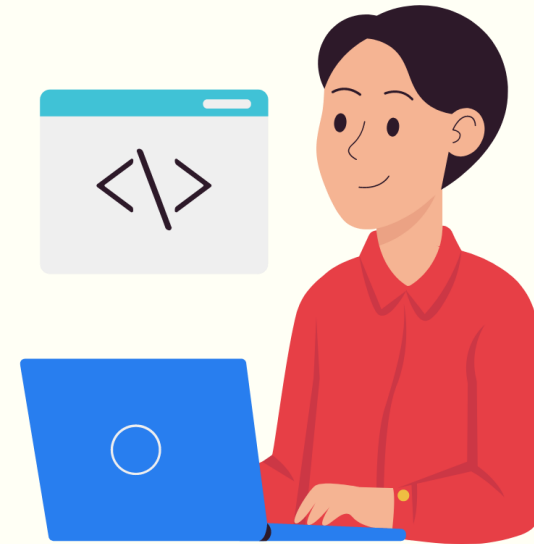
**SOFTWARE QUALITY ASSURANCE**

# Software Quality Assurance

QA



Developer



**SOFTWARE QUALITY ASSURANCE**

# Software Quality Assurance

QA



Product Owner



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# Software Quality Assurance

## Skill yang di Butuhkan Software Quality Assurance

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### 5. Pemahaman Tools QA

Penting untuk sorang QA menguasai tools yang biasa digunakan, seperti tools untuk manajemen proyek, manajemen test, ataupun tools untuk melakukan pengujian.



# Software Quality Assurance

## Jira

Projects / Beyond Gravity

### Board

⚡ ⌚ 4 days remaining **Complete sprint** ⋮

🔍 [ ] 👤 +3 Epic ▾ GROUP BY Choices ▾

TO DO 12	IN PROGRESS 4	IN REVIEW 4	DONE 4
<p>Implement feedback collector</p> <p>NUC-205 9 ▾ 👤</p>	<p>Update T&amp;C copy with v1.9 from the writers guild in all products that have cross country compliance</p> <p>NUC-213 🔗 1 ⚡ 👤</p>	<p>Multi-dest search UI web</p> <p>NUC-338 5 ⬆️ 👤</p>	<p>Quick booking for accomodations - web</p> <p>NUC-336 ✓ 🔗 4 ▾ 👤</p>
<p>Bump version for new API for billing</p> <p>NUC-206 3 = 👤</p>	<p>Tech spike on new stripe integration with paypal</p> <p>NUC-215 3 ⚡ 👤</p>		<p>Adapt web app no new payments provider</p> <p>NUC-346 ✓ 🔗 3 ▾ 👤</p>
<p>Add NPS feedback to wallboard</p> <p>NUC-208 1 ▾ 👤</p>	<p>Refactor stripe verification key validator to a single call to avoid timing out on slow connections</p> <p>NUC-216 3 ⚡ 👤</p>		<p>Fluid booking on tablets</p> <p>NUC-343 ✓ 5 = 👤</p>
	<p>Change phone number field type to 'phone'</p> <p>NUC-217 🔗 1 ▾ 👤</p>		<p>Shoping cart purchasing error - quick fix required.</p> <p>NUC-354 ✓ 1 ⚡ 👤</p>

# Software Quality Assurance

## Qase.io

← Test Run #34

✳️ Wizard

🕒

📶

➤

⋮

Navigation ▾

	STATUS	TITLE	DURATION
<input type="checkbox"/>	Passed	Check the "Active" tab is opened	🕒 325ms
<input type="checkbox"/>	Failed	Check the data in the widget	🕒 500ms
<input type="checkbox"/>	Blocked	Checking the correct display...	🕒 2s 300ms
<input type="checkbox"/>	Broken	The public reporter should...	🕒 1h 30m
<input type="checkbox"/>	Skipped	Check "abort" function	🕒 2h 1m


Launch Systems ▾

	STATUS	TITLE	DURATION
<input type="checkbox"/>	Passed	Check the "Active" tab is opened	🕒 325ms

Test Run Details

100%

Started by

 Buzz Aldrin


Started on

📅 21 May 2022 17:30

Duration

🕒 2h 1m 15s

Build

 release-20210

In progress



# Software Quality Assurance

## Postman

The screenshot displays the Postman interface with a GET request configured for the Notion API. The request URL is `https://api.notion.com/v1/databases/id`. The interface includes a sidebar with collections, a main workspace for editing the request, and a right-hand panel for documentation and response details.

**Request Details:**

- Method:** GET
- URL:** `https://api.notion.com/v1/databases/id`
- Params:** Auth, Headers (9), Body, Pre-req., Tests, Settings, Cookies
- Query params:**

KEY	VALUE	DESCRIPTION
Key	Value	Description

- Path Variables:**

KEY	VALUE	DESCRIPTION
id	<code>{{DATABASE_ID}}</code>	Required. Enter database id...

- Body:** Cookies, Headers (23), Test Results, 200 OK, 14.6 ms, 1.2 KB, Save Responses
- Body Type:** Pretty, Raw, Preview, Visualize, JSON
- Body Content (JSON):**

```
109     "Publisher": {
110       "id": "%3E%24Pb",
111       "name": "Publisher",
112       "type": "select",
113       "select": {
114         "options": [
115           {
116             "id": "c5ee409a-f307-4176-99ee-6e424fa89afa",
117             "name": "NYT",
118             "color": "default"
119           }
120         ]
121       }
122     }
```

**Documentation Panel:**

- Documentation:** `https://api.notion.com/v1/databases/id`
- Retrieves a database object using the ID specified in the request path.**
- Authorization:** Bearer Token
- Request Header:** Notion-Version: 22-02-22
- Path Variables:** id

# Software Quality Assurance

## Skill yang di Butuhkan Software Quality Assurance

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### 6. Basis data dan pemrograman dasar

Pengetahuan tentang basis data diperlukan untuk melakukan pengujian database atau API (application programming interface). Sedangkan pengetahuan pemrograman diperlukan untuk melakukan pengujian secara otomatis.

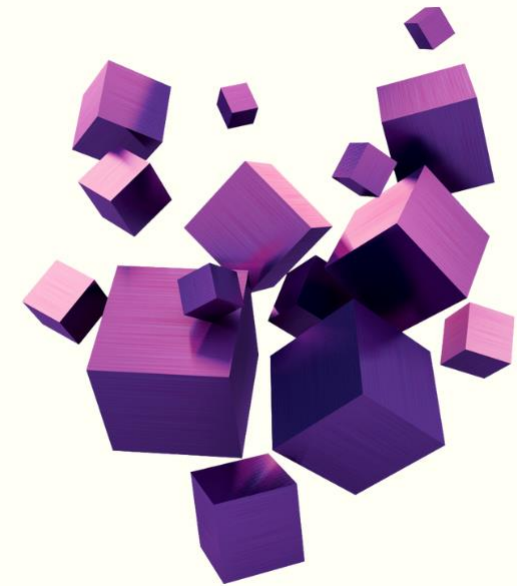


# Software Quality Assurance

## Skill yang di Butuhkan Software Quality Assurance

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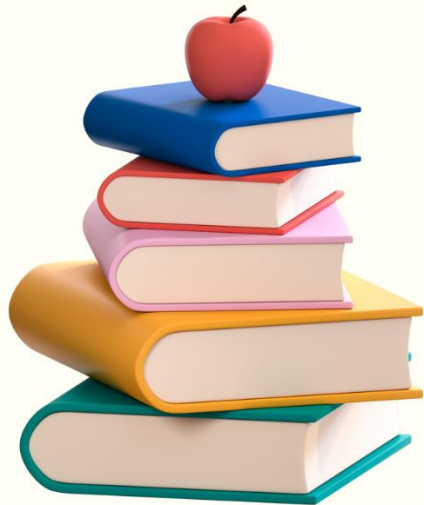
1. Pemahaman produk
2. Teliti, berorientasi detail, dan terstruktur
3. Kreatif dan inovatif
4. Komunikasi dan kerja tim
5. Pemahaman tools QA
6. Basis data dan pemrograman dasar



# Software Quality Assurance

## Rekomendasi Website untuk Belajar SQA

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[guru99.com](http://guru99.com)

[isqa.club](http://isqa.club)

[pojokqa.wordpress.com](http://pojokqa.wordpress.com)

[automationstepbystep.com](http://automationstepbystep.com)

[ministryoftesting.com](http://ministryoftesting.com)

[testautomationu.applitools.com](http://testautomationu.applitools.com)

**Jangan lupa**