BugQuery

Stack trace based exception search
The problem
Exception search using google

1. Search in google the first line of the exception
2. Open multiple tabs containing candidate web pages
3. For each tap:
   a. Scroll down in the page to the exception
   b. Compare its lines what you have
      i. Not similar ⇒ Close tap.’
      ii. Almost Similar ⇒ Read the body of the message and decide if it is related.
4. Pick the tab with the most related exception.
5. Find the “best” suggested solution,
   a. woked? Great.
   b. Didn’t work: repeat from 4 with the next most related exception.
Exception search using google

That is a lot of work! :(
How can it be easier?

BugQuery
Is an eclipse plugin and a website that helps programmers with their debugging.
How does it work?

- Once the user has an exception, he will have an additional line (at the end of the exception trace: “Find solutions using bugquery.”)

- When he clicks he will be taken to a page listing the most probable solutions.
Method

- Mine exception types from stackoverflow.
- Search for all exceptions in the internet and in stackoverflow.
- Do offline MAGIC to create a special index
- Given an exception: use a special SPELL along with the index we created to get most relevant solutions.
- View them in webpage
Questions?