

# Hydra for Web Annotations

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# What is Hydra?

- W3C Community Group for Linked APIs
- REST + Linked Data
- “At the intersection of web schemas and RESTful web applications”



# Automated API Provisioning

- Problem: How do I use an API without specifically coding for it?
- Answer: Use vocabulary to define operations on classes and properties
- Proposition: Annotations are the result of operations on entities or the relationships between entities.
  - Those results are also entities, which may be operated upon.



# Use Case: Q/A

- Given profile page for a Sports Personality, how can I interact with that entity?
  - follow
  - (dis)like
  - share
  - question
  - suggest relation

The screenshot displays the 'YOURsports' website interface. At the top, there's a navigation bar with 'YOURsports' logo and a search bar. Below the navigation, the main content area is titled 'SEATTLE SEAHAWKS' and features a large profile picture of a player. To the right of the profile picture, there are several tabs: 'News', 'I've Played', 'I've Won', 'I Listen To', 'Products I Use', 'Teammates', and 'Community'. Below these tabs is a search bar labeled 'Search By Name' with a 'Type a Name' input field and an 'Add' button. The main content area lists various sports teams with their fan counts and 'Follow' buttons. The teams listed include: Seattle Seahawks (2,987,232 Fans), Wisconsin Badgers football (492,098 Fans), Asheville Tourists (13,453 Fans), Tri City Dust Devils (9,543 Fans), NC State Wolfpack football (183,642 Fans), NC State Wolfpack baseball (7,582 Fans), Collegiate Cougar football (3,678 Fans), and Collegiate Cougar baseball (567 Fans). On the right side of the page, there's a sidebar with a 'Fan' button, a search bar, and a section titled 'Latest from Russell Wilson' with a post about Super Bowl XVIII Champs. At the bottom of the sidebar, there's a 'Bitcoin Collected To-Date' section showing '0.04266 BTC'.

# Links and Operations

- Define operations on entities, types of entities, or their properties.
- When does a property link to an entity?
- How do you use pagination to reference and collect linked entities?
- What operations can I perform on an entity, or property of that entity?
- Where does authentication/authorization intersect with generic API interactions?

# More Information

[hydra-cg.com](http://hydra-cg.com)

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