A picture containing text, electronics, screenshot

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With User commented out we just get id: 1 and tom.

Once we add User, we add an extra edge to get to leaf.

Resolution by Query.user without referring to User Type

Graphical user interface, application

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As Query.user provide a scalar resoltuion of id: 1 and username: tom the query cam to its leaf end.

Graphical user interface, application

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Initally we get id: 1 and username: top

As we ask for firstLetterOfUsername, GraphQL finds User and then applies first to the object it has received in parent as it cannot see its sibling username.

Hence we get t.

As there is id and username in User, it then applies those resolvers to get a random id and Harry.

Graphical user interface, application

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A screenshot of a computer

Description automatically generated with medium confidence

Now with empty object in Query.user, the User resolvers are used. Firstletter has no reference to username so returns null but the id and username are random and Harry.